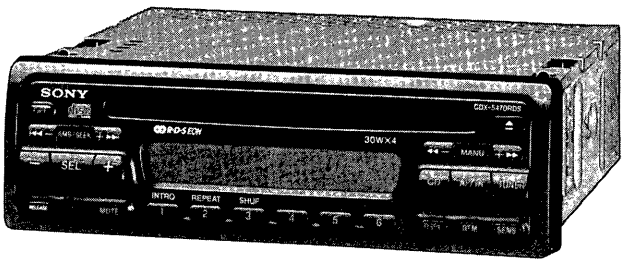
CDX-5470RDS

SERVICE MANUAL

AEP Model



Model Name Using Similar Mechanism	CDX-5460RDS
CD Drive Mechanism Type	MG-205X-130

SPECIFICATIONS

Power amplifier section

Outputs: Speaker outputs (sure seal connectors)
Speaker impedance: 4 – 8 ohms
Maximum power output: 30 W × 4 ch (at 4 ohms)

CD player section

System: Compact disc digital audio system
Frequency response: 10 – 20,000 Hz
Wow and flutter: Below the measurable limit
Signal-to-noise ratio: 90 dB

Tuner section

FM

Tuning range: 87.5 – 108.0 MHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.7 MHz
Sensitivity: 8 dBf
Selectivity: 75 dB at 400 kHz
Signal-to-noise ratio: 65 dB (stereo), 70 dB (mono)
Harmonic distortion at 1 kHz: 0.5% (stereo), 0.3% (mono)
Separation: 35 dB
Frequency response: 30 – 15,000 Hz

MW

Tuning range: 531 – 1,602 kHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.71 MHz/450 kHz
Sensitivity: 30 µV
Signal-to-noise ratio: 55 dB
Harmonic distortion at 1 kHz: 0.3%

LW (AEP Model)

Tuning range: 153 – 281 kHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.71 MHz/450 kHz
Sensitivity: 50 µV
Signal-to-noise ratio: 55 dB
Harmonic distortion at 1 kHz: 0.3%

SW (German Model)

Tuning range: 5,950 – 6,205 kHz
Antenna terminal: External antenna connector
Intermediate frequency: 10.71 MHz/450 kHz
Sensitivity: 50 µV
Signal-to-noise ratio: 55 dB
Harmonic distortion at 1 kHz: 0.3%

General

Tone controls: Bass ± 8 dB at 100 Hz
Treble ± 8 dB at 10 kHz
Power requirements: 12 V DC car battery (negative ground)
Current drain: 1 A (CD play)
1.5 A (during disc loading or eject)
Operating temperature: -10°C to 50°C
Dimensions: Approx. 186 × 57 × 172 mm (w/h/d) not incl. projecting parts and controls
Mass: Approx. 1.5 kg
Supplied accessories: Mounting hardware (1 set)
Power connecting cord (1)
Front panel case (1)
S commander (1) RM-X1S

Design and specifications subject to change without notice.

FM/MW/LW(SW) COMPACT DISC PLAYER

SONY®

使用時は添付資料も参照のこと
Refer to the additional documents

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SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK ⚠ OR DOTTED LINE WITH MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SERVICING NOTES

Laser Diode Properties

- Material: GaAlAs
- Wavelength: 780 nm
- Emission Duration: continuous
- Laser Output Power: less than 44.6 μW*

  * This output is the value measured at a distance of 200 mm from the objective lens surface on the Optical Pick-up Block.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

NOTES ON HANDLING THE OPTICAL PICK-UP BLOCK OR BASE UNIT

The laser diode in the optical pick-up block may suffer electrostatic breakdown because of the potential difference generated by the charged electrostatic load, etc. on clothing and the human body.

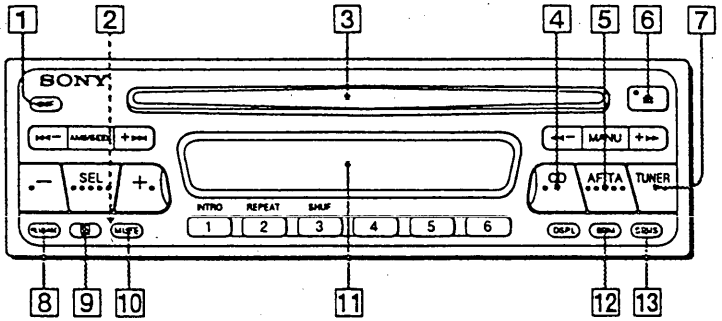
During repair, pay attention to electrostatic breakdown and also use the procedure in the printed matter which is included in the repair parts.

The flexible board is easily damaged and should be handled with care.

Location and Function of Controls

Location and Function of Controls

Main Unit



Refer to the pages in ● for details.

1 **OFF button**
Press to turn off the unit.

2 **Reset button (located on the front side of the unit hidden by the front panel)**
Press this button when you use this unit for the first time, when you have changed the car battery, or when the buttons of this unit do not function. Note that when the button is pressed, the memories on the preset number buttons will be erased.

3 **Disc Insertion slot** ⑫

4 **CD (disc play) button** ⑫

5 **AF/TA (alternative frequency/traffic announcement) button** ⑭
Each time the button is pressed, the function changes in order of:

→ AF → TA → AF/TA → none →

6 **⏏ (eject) button** ⑫

7 **TUNER (radio on/band select) button** ⑭
At each pressing, the button changes the band cyclically as follows:

→ FM1 → FM2 → FM3 → MW → LW (SW) →

8 **RELEASE (front panel release) button** ⑩

9 **Receptor (for the wireless remmote commander)**

10 **MUTE button**
Press to mute the sound momentarily. Press again to restore the previous volume level. This button will also be canceled in the following cases:

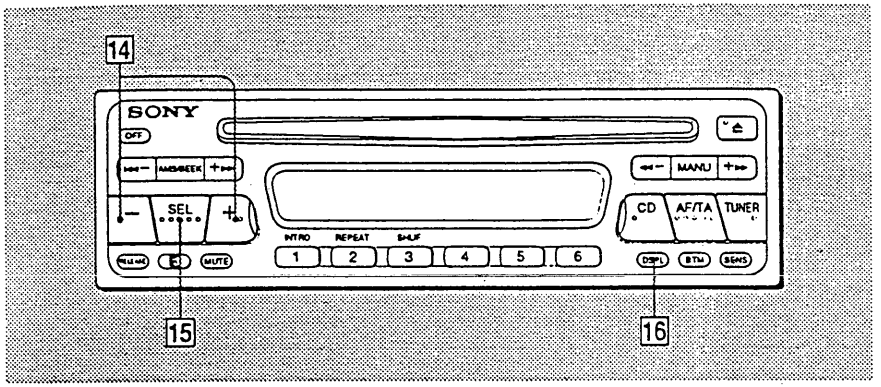
— when the [+] or OFF button is pressed

— when the ignition key of your car has been turned to the OFF position for more than ten seconds.

11 **Display window**

12 **BTM (best tuning memory) button** ⑮

13 **SENS (sensitivity/loudness) button** ⑭
Press for more than two seconds to reinforce the bass and treble especially when listening at a low volume level. To disengage the button, press it again for more than two seconds.



14 **[−] [+] (volume/bass/treble/balance/fader control) buttons**
Press to adjust each mode.

15 **SEL (control mode select) button**
Press to select the desired control mode: BAS (bass), TRE (treble), BAL (balance), FAD (fader) or VOL (volume).

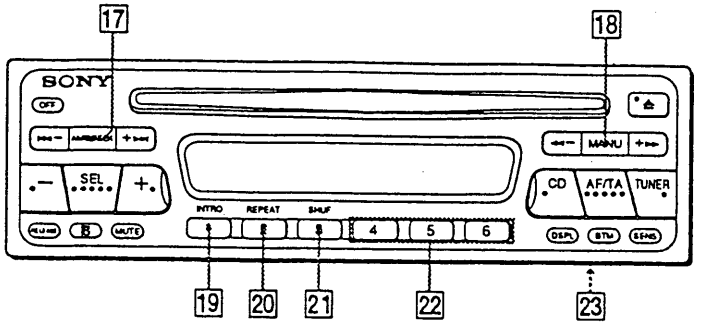
16 **DSPL (display change/time set) button** ⑪
At each pressing, the button changes the display modes as follows:

During CD play	During radio reception
Elapsed playing time/track number ⟷ Clock	Frequency ⟷ Clock

Display window	Control mode	Press [−]	Press [+]
BAS	Bass control	For less bass	For more bass
TRE	Treble control	For less treble	For more treble
BAL	Balance control	To decrease the right-speakers' volume	To decrease the left-speakers' volume
FAD	Fader control	To decrease the rear-speakers' volume	To decrease the front-speakers' volume
VOL	Volume control	For less volume	For more volume

These [−] [+] buttons normally function as the volume control. Adjust the level within three seconds after selecting the desired control mode with the SEL button. Otherwise, the mode will go back to the volume control mode.

This section is extracted from instruction manual.



		During CD play	During radio reception
17	AMS/SEEK button	AMS (Automatic Music Sensor) function ⏮: Press once to locate the beginning of the track being played. ⏭: Press once to locate the beginning of the next track. Press repeatedly to locate previous or succeeding tracks.	Automatic tuning ⑭
18	MANU button	Manual search ◀◀: Keep pressed to go back at high speed. ▶▶: Keep pressed to go ahead at high speed.	Manual tuning ⑭
19	INTRO button (1)	Intro scan ⑬	Preset number buttons ⑯
20	REPEAT button (2)	Repeat play ⑬	
21	SHUF button (3)	Shuffle play ⑬	
22	(4) (5) (6)	—	

23 POWER SELECT switch (located on the bottom of the unit)
See "POWER SELECT Switch" in the installation/connections manual.

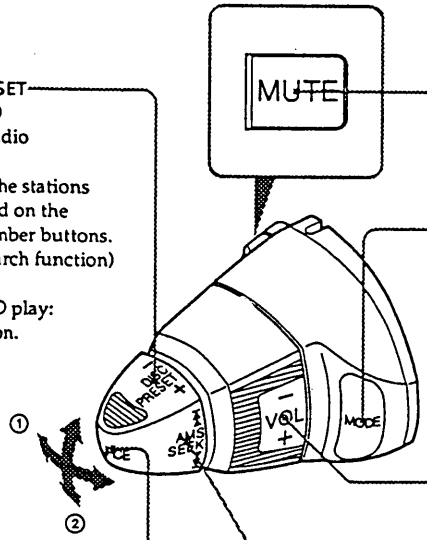
Changing the illumination color

Press the (1) button while pressing the SEL button.

Muting the beep tone

Press the (6) button while pressing the SEL button. To obtain the beep tone again, press these buttons once more.

S. Commander RM-X1S



DISC/PRESET control ①
During Radio reception:
Receives the stations memorized on the preset number buttons. (Preset search function)

During CD play:
No function.

MUTE button
Press to mute the second momentarily.

MODE button
During Radio reception:
At each pressing, the button changes the band.

During CD play:
No function.

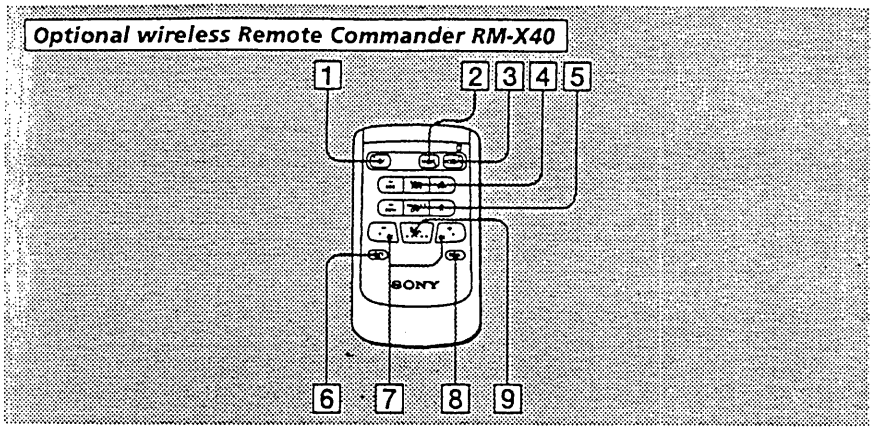
VOL (volume) control
Turn to a adjust the volume.

SOURCE selector
At each pressing, the button changes the source.

AMS/SEEK control ②
During CD play:
Locates the beginnings of the tracks (AMS function).

During Radio reception:
Automatically tunes to a station. When a station is tuned in, the search stops automatically.

When the POWER SELECT switch is set to the OFF position, the unit cannot be operated with the S commander unless one of the CD and TUNER buttons of the unit is pressed or a disc is inserted to activate the unit first.



Buttons of the same function as those on the main unit

1 OFF button

	During CD play	During radio reception
4	AMS (Automatic Music Sensor) button	SEEK (automatic tuning) button ⓮

6 MUTE button

7 (volume/bass/treble/balance/fader control) buttons ❻
Press to adjust each mode.

8 DSPL (display change) button ❻ ⓫

9 SEL (control mode select) button ❻
Press to select the desired control mode.

Different function buttons

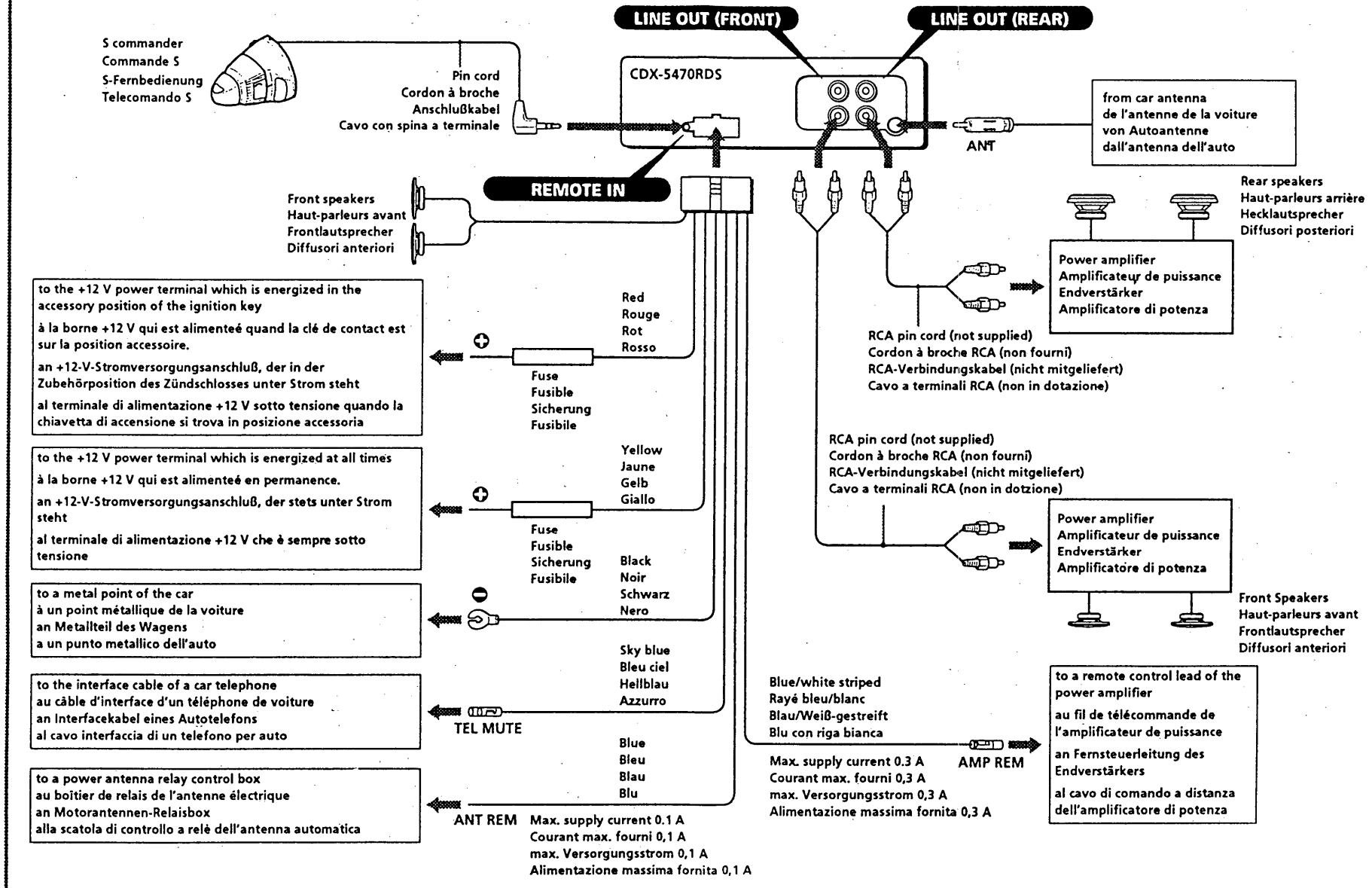
2 MODE button

During CD play	During radio reception
No function	At each pressing, the button changes the band.

3 SOURCE button
At each pressing, the button changes the source as follows:
→RADIO → CD →

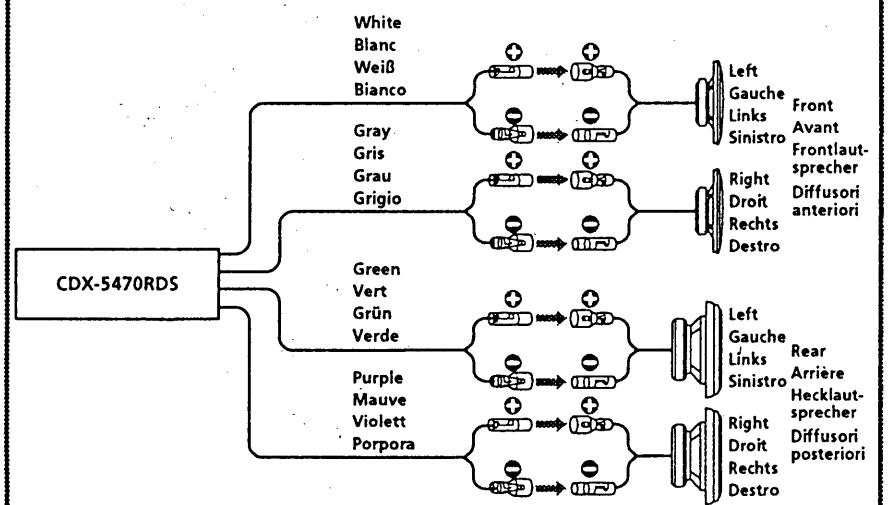
	During CD play	During radio reception
5	No function	PRESET (preset search) button. Receives the stations memorized on the preset number buttons. (Preset search function)

When the POWER SELECT switch is set to the OFF position, the unit cannot be operated with the wireless remote commander unless one of the CD and TUNER buttons of the unit is pressed or a disc is inserted to activate the unit first.


LINE OUT (FRONT)
LINE OUT (REAR)
CDX-5470RDS
S commander
Commande S
S-Fernbedienung
Telecomando S
Pin cord
Cordon à broche
Anschlußkabel
Cavo con spina a terminale
ANT
from car antenna
de l'antenne de la voiture
von Autoantenne
dall'antenna dell'auto
REMOTE IN
Front speakers
Haut-parleurs avant
Frontlautsprecher
Diffusori anteriori
Rear speakers
Haut-parleurs arrière
Hecklautsprecher
Diffusori posteriori
Power amplifier
Amplificateur de puissance
Endverstärker
Amplificatore di potenza
RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
RCA-Verbindungskabel (nicht mitgeliefert)
Cavo a terminali RCA (non in dotazione)
to the +12 V power terminal which is energized in the accessory position of the ignition key
à la borne +12 V qui est alimenteé quand la clé de contact est sur la position accessoire.
an +12-V-Stromversorgungsanschluß, der in der Zubehörposition des Zündschlosses unter Strom steht
al terminale di alimentazione +12 V sotto tensione quando la chiavetta di accensione si trova in posizione accessoria
Red
Rouge
Rot
Rosso
Fuse
Fusible
Sicherung
Fusibile
to the +12 V power terminal which is energized at all times
à la borne +12 V qui est alimenteé en permanence.
an +12-V-Stromversorgungsanschluß, der stets unter Strom steht
al terminale di alimentazione +12 V che è sempre sotto tensione
Yellow
Jaune
Gelb
Giallo
Fuse
Fusible
Sicherung
Fusibile
RCA pin cord (not supplied)
Cordon à broche RCA (non fourni)
RCA-Verbindungskabel (nicht mitgeliefert)
Cavo a terminali RCA (non in dotzione)
Power amplifier
Amplificateur de puissance
Endverstärker
Amplificatore di potenza
Front Speakers
Haut-parleurs avant
Frontlautsprecher
Diffusori anteriori
to a metal point of the car
à un point métallique de la voiture
an Metallteil des Wagens
a un punto metallico dell'auto
Black
Noir
Schwarz
Nero
to the interface cable of a car telephone
au câble d'interface d'un téléphone de voiture
an Interfacekabel eines Autotelefons
al cavo interfaccia di un telefono per auto
Sky blue
Bleu ciel
Hellblau
Azzurro
TEL MUTE
Blue/white striped
Rayé bleu/blanc
Blau/Weiß-gestreift
Blu con riga bianca
Max. supply current 0.3 A
Courant max. fourni 0,3 A
max. Versorgungsstrom 0,3 A
Alimentazione massima fornita 0,3 A
AMP REM
to a remote control lead of the power amplifier
au fil de télécommande de l'amplificateur de puissance
an Fernsteuerleitung des Endverstärkers
al cavo di comando a distanza dell'amplificatore di potenza
to a power antenna relay control box
au boîtier de relais de l'antenne électrique
an Motorantennen-Relaisbox
alla scatola di controllo a relè dell'antenna automatica
Blue
Bleu
Blau
Blu
ANT REM
Max. supply current 0.1 A
Courant max. fourni 0,1 A
max. Versorgungsstrom 0,1 A
Alimentazione massima fornita 0,1 A

Speaker Connection
Connexion des haut-parleurs
Lautsprecheranschluß
Collegamento dei diffusori

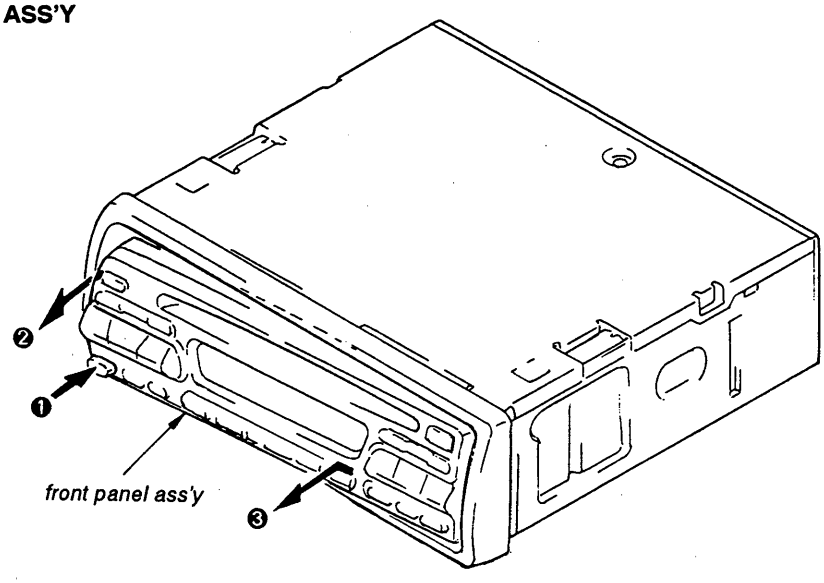
4-speaker connection
Connexion de 4 haut-parleurs
Vier-Lautsprecher-Anschluß
Collegamento a 4 diffusori



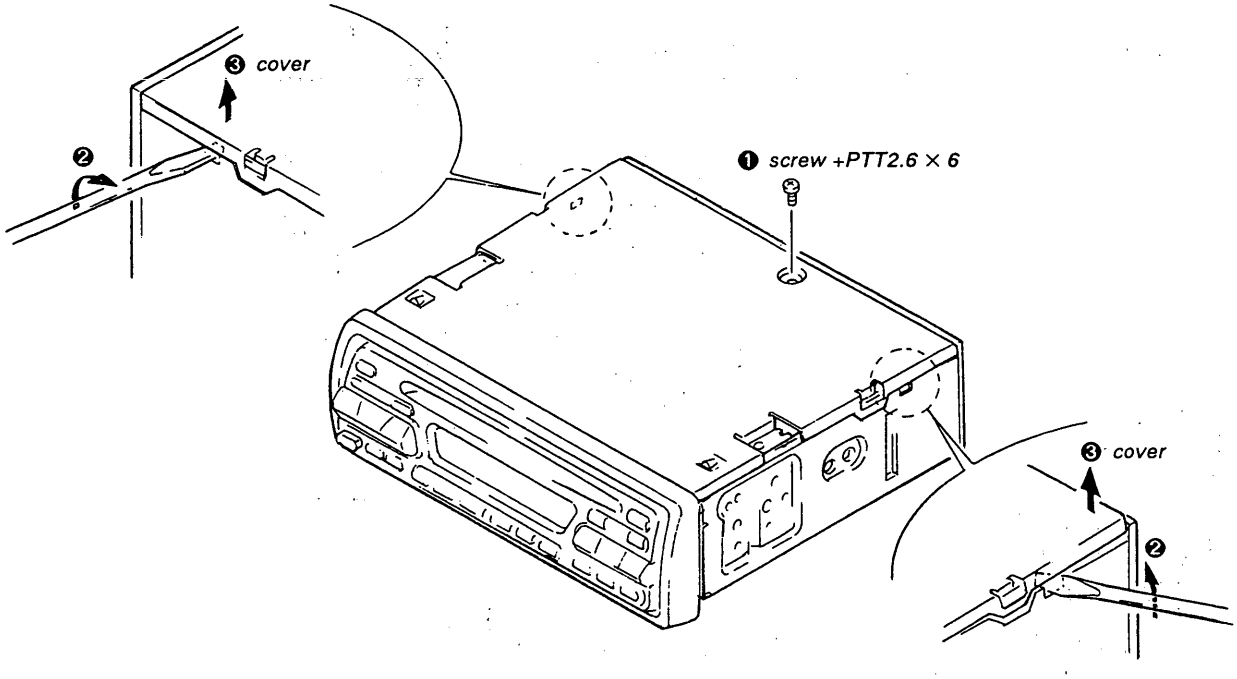
SECTION 2
DISASSEMBLY

Note: Follow the disassembly procedure in the numerical order given.

FRONT PANEL ASS'Y



COVER ASS'Y



SECTION 3
TEST MODE

Setting:

Method 1

Press keys in order of [4] → [5] → [1] for 2sec. under OFF condition.

Method 2

Pin ⑯ of IC701 (SYSTEM CONTROL) → Connected to GND → [RESET] button (S703).

Note: While the TEST MODE is set, the following will be displayed on the LCD.
Bit display "SHUF".

Releasing:

Press [OFF] key, or press [RESET] button (Open pin ⑯ of IC701).

LCD display test

All segments of the display are lit up at the beginning of test mode.

Electronic volume test

[+] key :

→ − 20dB → − 10dB → 0dB →

[−] key : normal operation

[SEL] key :

→ BASS max → BASS min → TREBLE max →
← All center ← LOUD on ← TREBLE min ←

[MUTE] key :

→ BALANCE R → BALANCE L → FADER rear →
← All center ← FADAR front ←

CD SECTION

Audio Measurement Mode

When CD is played, the AUDIO MEASUREMENT MODE turns on.

When "YEDS-18" is played in the measuring mode, only the following Track No. will be played. (BANK function)

Each time the [4] key is pressed, the measuring mode turns on/off cyclically.

Note: AUDIO MEASUREMENT MODE PLAY Track No.
No. 2, 3, 6, 7, 8, 10, 12, 13, 17
(These have been set assuming that YEDS-18 will be used.)

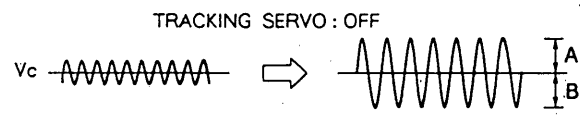
When YEDS-18 is used, the recording signals of the above tracks are as follows.

TNO	CONTENTS	EMPHASIS	PURROSE
2	1kHz Sine Wave 0dB L & R	OFF	Reference
3	20kHz Sine Wave 0dB L & R	OFF	Frequency
6	20kHz Sine Wave 0dB L & R	OFF	Modulation Noise
7	Infinity Zero − ∞dB L & R	OFF	S/N
8	1kHz Sine Wave 0dB L	OFF	Channel Separation
10	1kHz Sine Wave 0dB R		
12	5kHz Sine Wave − 4.53dB L & R	ON	De emphasis
13	16kHz Sine Wave − 9.04dB L & R		
17	1kHz Sine Wave − 60dB L & R	OFF	Dynamic Range

Adjusting and Checking Functions

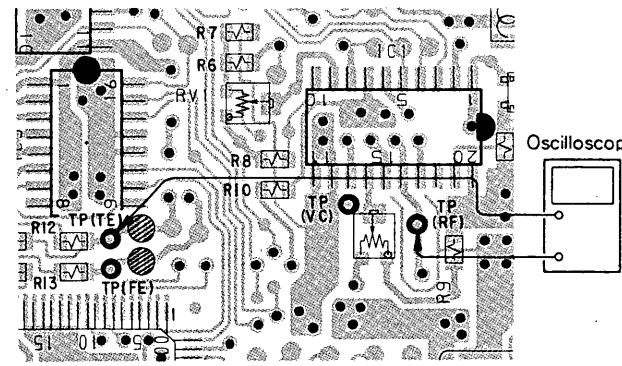
a) TRACKING OFFSET adjustment

Each time the [INTRO] key is pressed while the CD is played, the TRACKING SERVO turns on/off. The bit display "INTRO" on the LCD will be lit while the TRACKING SERVO is off.



Adjustment Location and Measurement point:

[MD BOARD] (SIDE B)



Procedure:

Adjust RV1 so that the peak values of waveforms A and B become equal.

b) Focus search retry mode

Each time the [REPEAT] key is pressed while the CD is played, the FOCUS SEARCH RETRY MODE turns on/off.

When the FOCUS does not turn on in the FOCUS SEARCH RETRY MODE, the FOCUS search is repeated. Once the FOCUS turns on, the unit sets into the PLAY condition.

During the FOCUS SEARCH RETRY MODE, the "REP" bit display on the LCD will be lit.

Note: This mode is for checking the unit when FOCUS cannot be set.

CD Error Display

During CD PLAY in the TEST MODE, the following ERROR displays will be shown when CD errors occur.
"E- n1 n2"
n1 to n2 are determined by ERROR symptoms as shown below.

n1	n2
1 : SERVO ERROR	1 : FOCUS ERROR 2 : GFS ERROR 3 : SLED MAX TIME OVER 4 : SLED OVERRUN 5 : TOC READ ERROR
3 : LOADING /EJECT ERROR	1 : MAX TIME OVER (When sensor is passed during loading.) 2 : Loading of only 8cm CD, adaptor, etc. 3 : MAX TIME OVER (Until chucking ends during loading.) 4 : MAX TIME OVER (Until EJECT ends during ejecting.)
4 : TRACK JUMP	1 : FOCUS DOWN 2 : TRACK JUMP 3 : HANG UP
D : TEMP (HOT)	0
F : MD GIVE UP	7 : EJT

TUNER SECTION

When the tuner is turned on in the TEST MODE, all bands will first be set to f_{center}.

SEEK STOP TEST Function

a) When the [SEEK +] key is pressed, the unit is set to a frequency − 10 steps from the f_{center} and automatically seeks up to the f_{center}.

- If the unit seek stops at the f_{center} :
  The unit sets into the f_{center} reception state. Preset No. "1" will be displayed.
- If the unit seeks up to the f_{center} and cannot seek stop :
  It returns to the − 10 step frequency and seeks up again.
- If the unit seek stops before the f_{center} :
  The unit receives that frequency. Preset No. "3" will be displayed.

b) When the [SEEK −] key is pressed, the unit is set to a frequency + 10 steps from the f_{center} and automatically seeks down to the f_{center}.
Hereafter the same as the [SEEK +] key.

c) When the [MANU +] key is pressed, the unit is set to a frequency − 10 steps from the f_{max} and seeks up.
Hereafter the same as a) except that f_{center} is replaced by f_{max}.

d) Press the [MANU −] key to carry out normal MANUAL search down operations.

BAND SELECT

During TEST MODE, only the single band can be selected.

AGC CUT Function

In the AM ON condition, this function activates the $\overline{SEEK}$ port (IC603) and cuts AGC.
In the AGC CUT condition, the following displays on the LCD will light up.
Bit display "BANK"

When the [BTM] key is pressed for more than two seconds, AGC CUT turns on/off cyclically.
(The BTM function is unavailable.)

Note: Set the AGC CUT condition when adjusting the AM SEEK STOP sensitivity.
If the band changes from FM to AM, be sure to turn on the AGC CUT.

SD Signal Display (For adjusting SEEK STOP LEVEL)

If the SD signal becomes high while a certain frequency is being received, after BAND displays such as "FM", "AM", etc. are shown, the following displays will light up.

"3" display

When the SD signal is low, nothing will be shown after the BAND is displayed.

BTM Signal Level Display Function (For adjusting FM S meter)

When the [M.SCAN] key is pressed, the level of the S meter voltage of the A/D conversion input will be displayed. (Displayed at frequency display)

* Input FM f_{center} 35 dBμ at SG, and adjust the BTM signal level displayed to 0.6.

Press MANU +/−, etc. to return the frequency display. M.SCAN operations are unavailable.

DESTINATION	BAND	fmin	fcenter	fmax	step(SEEK)	step(MANUAL)
AEP, G	FM	87.50MHz	98.00MHz	108.00MHz	50kHz	50kHz
	MW	531kHz	999kHz	1,602kHz	9kHz	9kHz
	LW(AEP)	153kHz	216kHz	281kHz	9kHz	1kHz
	SW(G)	5,950kHz	6,080kHz	6,205kHz	5kHz	1kHz

Abbreviation G : German

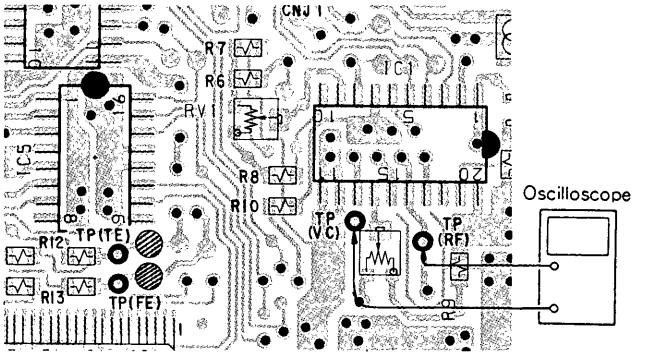
SECTION 4
ELECTRICAL ADJUSTMENTS

CD SECTION

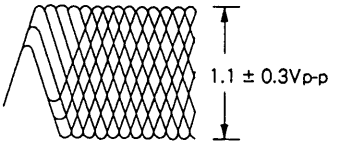
Focus Offset Adjustment

Adjustment Location and Measurement point:

[MD BOARD] (SIDE B)



Volt/div : 200mV
Time/div : 0.5 µsec



Procedure:

1. Connect the oscilloscope to test point [RF] on the MD board.
2. Load a disc and set mode to PLAY.
3. Adjust RV2 so that the waveform on the oscilloscope (eye pattern) is maximum with good shape. "Well-shaped eye pattern"means that the mark "◇" is clearly distinguished at the center of the waveform.

Tracking Offset Adjustment

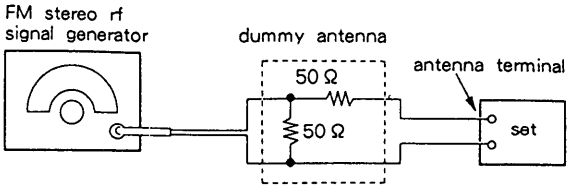
Refer to the "TEST MODE CD SECTION".

TUNER SECTION

FM Seek Stop Level Adjustment (FM SD Adjustment)

Setting:

Band : FM
Frequency : 98MHz

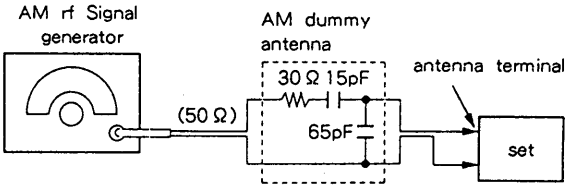


Carrier frequency : 98MHz
Modulation : 1kHz, 75kHz
Output level : 22dB (12.6 µ V)

AM Seek Stop Level Adjustment (AM SD Adjustment)

Setting:

Band : AM (MW)
Frequency : 999kHz



Carrier frequency : 999kHz
Modulation : 400Hz 30 %
Output level : 32dB (40 µ V)

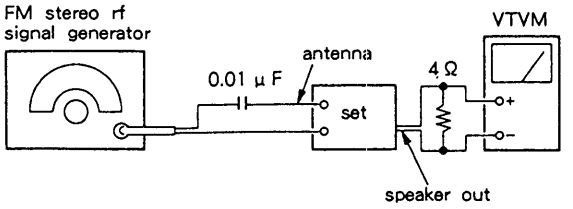
Procedure:

1. Set the "SD Signal Display" MODE of the TEST MODE.
2. Adjust RV3 (FM), RV1 (AM) of the TUNER UNIT, and erase the SD display "3" once.
3. Adjust RV3 (FM), RV1 (AM) so that a SD display lights up again.
4. Check with the "SEEK STOP TEST" function of the TEST MODE.

FM Stereo Separation Adjustment

Setting:

BAND : FM Stereo
Frequency : 98MHz



Carrier frequency : 98MHz
Modulation : Main channel : 1kHz, 33.75kHz deviation (45%)
Pilot signal : 18kHz, 7.5kHz deviation (10%)
Sub channel : 1kHz, 33.75kHz deviation (45%)
Output level : 1mV (More than 35dB)

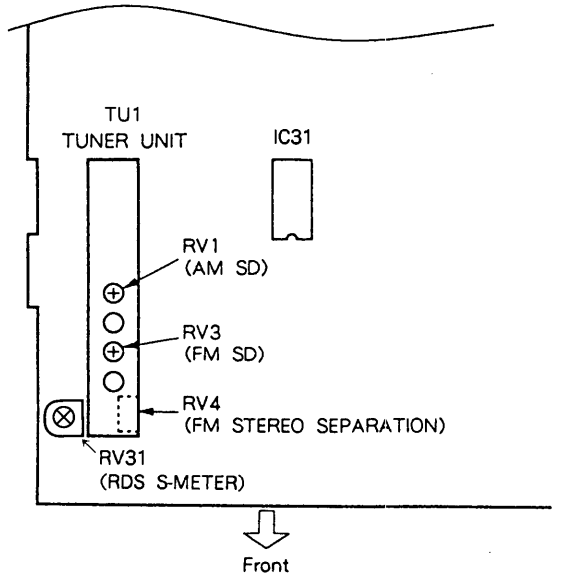
Procedure:

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	ⓐ
R-CH	L-CH	ⓑ Adjust RV4 for minimum reading.
R-CH	R-CH	ⓒ
L-CH	R-CH	ⓓ Adjust RV4 for minimum reading.

Note: The separation values in the two channels should be identical.
ⓐ−ⓑ=ⓒ−ⓓ

Adjustment Location:

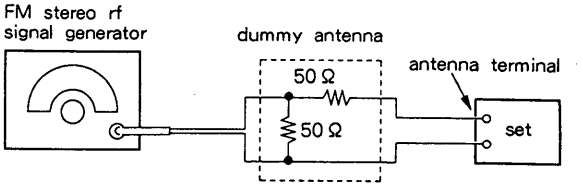
【MAIN BOARD】 (SIDE A)



RDS S-METER Adjustment

Setting:

Band : FM
Frequency : 98MHz



Carrier frequency : 98MHz
Modulation : no-modulation
Output level : 35dBμ (56.2μV)

Procedure:

Refer to "TEST MODE TUNER SECTION".
(BTM Signal Level Display Function)

SECTION 5
DIAGRAMS

5-1. IC PIN DESCRIPTION

• IC701 SYSTEM CONTROL (μPD75518GF-165-3B9)

Pin No.	Pin Name	I / O	Description
1	KI0	I	Key input pin. (A/D conversion input.)
2	VREF	I	Reference voltage input pin of A/D conversion pins.
3	VDD	I	Power supply input. (5V)
4	VDD	I	
5	CD DATA	O	SERIAL DATA output pin for the CD servo IC.
6	CD CLK	O	SERIAL CLOCK output pin for the CD servo IC.
7	CD LATCH	O	SERIAL DATA LATCH output pin for the CD servo IC.
8	CD RST	O	CD servo IC resetting output pin.
9	CD ON	O	Power supply ON/OFF control output pin. (CD servo IC)
10	MD ON	O	Power supply ON/OFF control output pin. (Mechanism deck section)
11	LM +	O	Loading motor control output pins. LM − / LM + FWD (Loading): L / H REV (Eject): H / L
12	LM −		
13	N.C	−	Connected to GND.
14	N.C	−	
15	AMP-MUTE	O	MUTE output pin for power amp IC.
16	SCLK	O	SERIAL CLOCK output pin.
17	N.C	−	Not used.
18	LCD DATA	O	SERIAL DATA output pin for the LCD driver.
19	LCD CLK	O	SERIAL CLOCK output pin for the LCD driver.
20	TUNER ON	O	ON/OFF control of the tuner block power supply ANT REM.
21	SQCK	O	CLOCK output pin for reading the Q DATA.
22	VOL CE	O	CE output pin to the electronic VOL. IC.
23	VOL CLK	O	SERIAL CLOCK to the electronic VOL. IC.
24	VOL DATA	O	SERIAL DATA to the electronic VOL. IC.
25	SUBQ	I	Q DATA input pin.
26	BUS CLK	O	SERIAL CLOCK output pin for BUS communication.
27	TV	I	Initial setting pin for the TV/VIDEO key.
28	PS SW	I	Power select SW input pin.
29	SCOR ACT	O	Activate for SCOR line.
30	$\overline{\text{APC}}$	O	CD pick-up laser power ON/OFF control output.
31	N.C	−	Not used.
32	$\overline{\text{EMP ON}}$	O	Outputs "L" when a DISC which has been pre-emphasized is played back.
33	VSS	−	Connected GND.
34	SW3	I	Mechanism deck sensor (loading/eject) input pin.
35	SW2	I	Mechanism deck sensor (loading/eject) input pin.
36	SW1	I	Mechanism deck sensor (loading/eject) input pin.
37	DISC SW	I	Mechanism deck sensor input pin. Detects the completion of the DISC chucking operation.
38	LAMP ON	O	Not used.

Pin No.	Pin Name	I / O	Description
39	ILL ON	O	Illumiation control output pin.
40	P ON	O	ON/OFF control pin of the power supply.
41	NOSE SW	I	Front panel Ass'y removal and attaching detection.
42	DIG OUT ON	O	Not used.
43	$\overline{\text{SYS RST}}$	O	RESET output pin for UNILINK system.
44	$\overline{\text{BUS ON}}$	O	When the BUS is in the ACTIVE condition, the BUS ON line in the BUS will become "H". This pin controls the ON/OFF of this BUS ON 5V.
45	BEEP	O	Alarm drive output pin.
46	$\overline{\text{ACC CHECK}}$	I	ACC line ON/OFF detection.
47	IN SW/SCOR	I	CD PLAY : SCOR input pin. Others : MD roller open/close detect input.
48	$\overline{\text{KEY ACK}}$	I	Front panel key detecton.
49	SIRCS	I	SIRCS signal input pin.
50	DATA IN	I	DATA input pin for BUS communication.
51	DATA OUT	O	SERIAL DATA output pin for BUS communication.
52	S CLK IN	I	SERIAL CLOCK input pin for BUS communication.
53	BU CHECK	I	BATT line ON/OFF detection.
54	Vss	–	Connected to GND.
55	XT1	–	Connected to GND.
56	XT2	–	Not used.
57	Vss	–	Connected to GND.
58	X1	–	The SYSTEM CLOCK (6.0MHz) for system control IC.
59	X2	–	
60	RESET	I	Input pin for system reset.
61	N.C	–	Not used.
62	N.C	–	Not used.
63	N.C	–	Not used.
64	MUTE	O	Audio MUTE output pin.
65	AD ACTIVE	O	VREF control pin of A/D conversion pins.
66	$\overline{\text{LCD INH}}$	O	Pin which outputs INH to the LCD driver IC.
67	LCD CE	O	Pin which outputs CE to the LCD driver IC.
68	COLOR	O	Output pin for switching lighting colors. (AMBER/GREEN)
69	FILE	I	Initial setting pin for FILE key.
70	SENS	I	SENS input pin from CD servo IC.
71	GFS	I	GFS input pin from CD servo IC.
72	FOK	I	FOK input pin fromt CD servo IC.
73	Vss	–	Connected to GND.
74	$\overline{\text{TEL MUTE}}$	I	Telephone MUTE input pin.
75	DIG OUT	I	Connected to GND.
76	$\overline{\text{TEST}}$	I	When dropped to "L", TEST MODE will be set.
77	ALARM	I	Initial setting for caution alarm function.
78	TEMP-H	I	Temperature detection (High)
79	TEMP-L	I	Temperature detection (Low)
80	KI1	I	Key input pin (A/D conversion input)

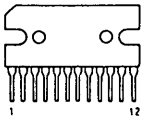
• **IC501 TUNER CONTROL (MN1882417SNU2)**

Pin No.	Pin Name	I / O	Description
1	A5	O	S-RAM ADDRESS control output.
2	A4		
3	A3		
4	A2		
5	A1		
6	A0		
7	VDD	–	Power supply pin.
8	X1	–	Connecting pins of the ceramic oscillator.
9	X2	–	
10	GND	–	
11	XTI	–	Not used.
12	XTO	–	
13	EX2	–	Connected to GND.
14	$\overline{\text{RESET}}$	I	Reset input pin.
15	RDS CLK	I	RDS CLK input pin.
16	BU CHECK	I	BACK-UP detection.
17	BUS ON	I	BUS INTERFACE ON/OFF detection.
18	D7	I/O	S-RAM DATA BUS.
19	D6		
20	D5		
21	D4		
22	D3		
23	D2		
24	D1		
25	D0		
26	RE	O	S-RAM READ ENABLE output.
27	WE	O	S-RAM WRIGHT ENABLE output.
28	TERM	–	Not used.
29	R/W	–	
30	RDS DATA	I	RDS DATA input.
31	DEV SENS	I	Not used.
32	S3	–	Not used.
33	S2	–	
34	S1	–	
35	S0	–	
36	–	–	Connected to GND.
37	–	–	
38	PLL DI	I	PLL DATA input.
39	PLL DO	O	PLL DATA output.
40	PLL CLK	O	PLL CLK output.
41	PLL CE	O	PLL CE output.
42	REQUEST	O	BUS REQUEST output.
43	LINK OFF	O	Not used.
44	SCK	I	BUS INTERFACE CLK input.
45	SI	I	BUS INTERFACE DATA input.
46	SO	O	BUS INTERFACE DATA output.
47	VDD	–	Power supply pin.

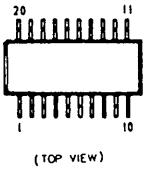
Pin No.	Pin Name	I / O	Description
48	AVDD	–	Power supply pin. (For A/D conversion ports.)
49	VREF +	I	Reference voltage input pin.
50	–	–	Connected to GND.
51	–		
52	–		
53	MUTE SEL		
54	MS1	I	Mode select input.
55	MS0	I	
56	AM VSM	I	S-METER voltage detection input. AM (MW : SW : LW) / FM
57	FM VSM	I	
58	VREF –	I	Connected to GND.
59	AVSS	–	Connected to GND.
60	GND	–	
61	TUNER ON	O	Not used.
62	$\overline{DX}$/LO	O	Not used.
63	$\overline{RECIEVE}$	O	SEEK OUT output.
64	AM ON	O	Not used.
65	FM ON	O	FM ON output.
66	MUTE	O	MUTE output.
67	AF SEEK	O	AF SEEK OUT output.
68	SRAM	O	External S-RAM control output.
69	A15	O	Not used.
70	ST IN	I	Stereo input pin.
71	SD IN	I	SD input pin.
72	A14	O	Not used.
73	A13	O	
74	A12	O	S-RAM CE output.
75	A11	O	Not used.
76	A10	O	S-RAM ADDRESS control output.
77	A9		
78	A8		
79	A7		
80	A6		

- **Semiconductor Lead Layouts**

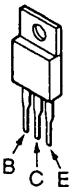
BA3910B-V3



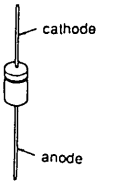
LC7216M
MPC1730MR2



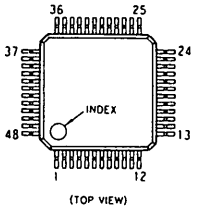
2SD2394-G



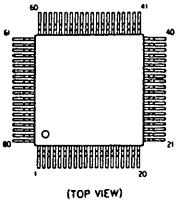
10E2



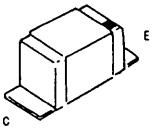
CXA1646Q



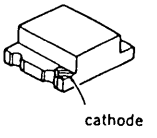
MN1882417SNU2



CPT-181S-C-TU



CL-155Y/PG-CD



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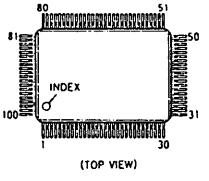

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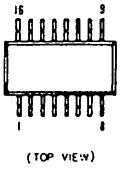
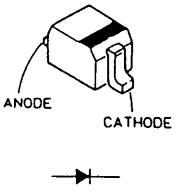
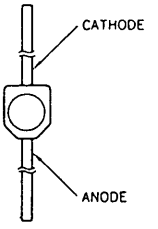


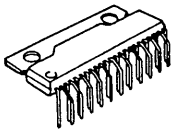
DTZ5.1C
1SS355



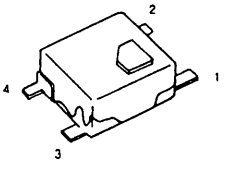
CL-2001R-X-TU



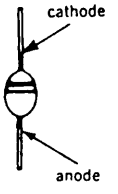
HA13150A



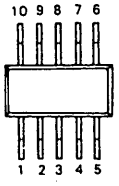
RS20



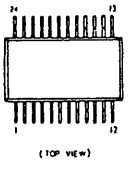
DSA3A4



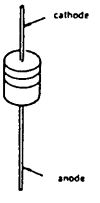
LB1638M



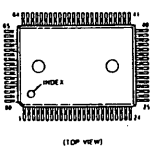
SM5874AM-ET



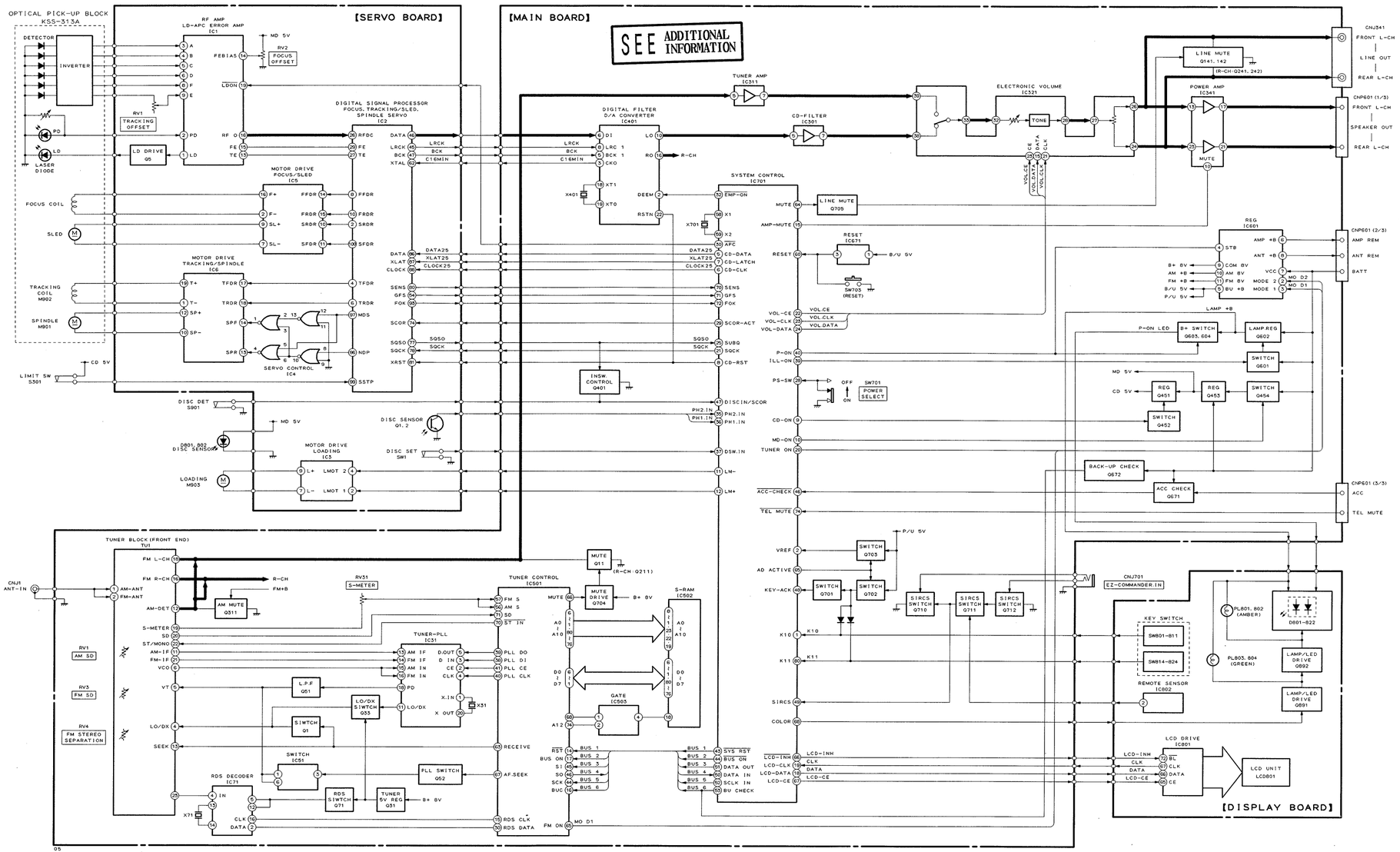
MTZJ-T-77-20B
MTZJ-11B
MTZJ-2.2B
RD18ES-B2
RD3.9ES-B2
RD5.6ES-B2
RD6.8ES-B2
1SS133



TC9240F
μPD75518GF-165-3B9



5-2. BLOCK DIAGRAM

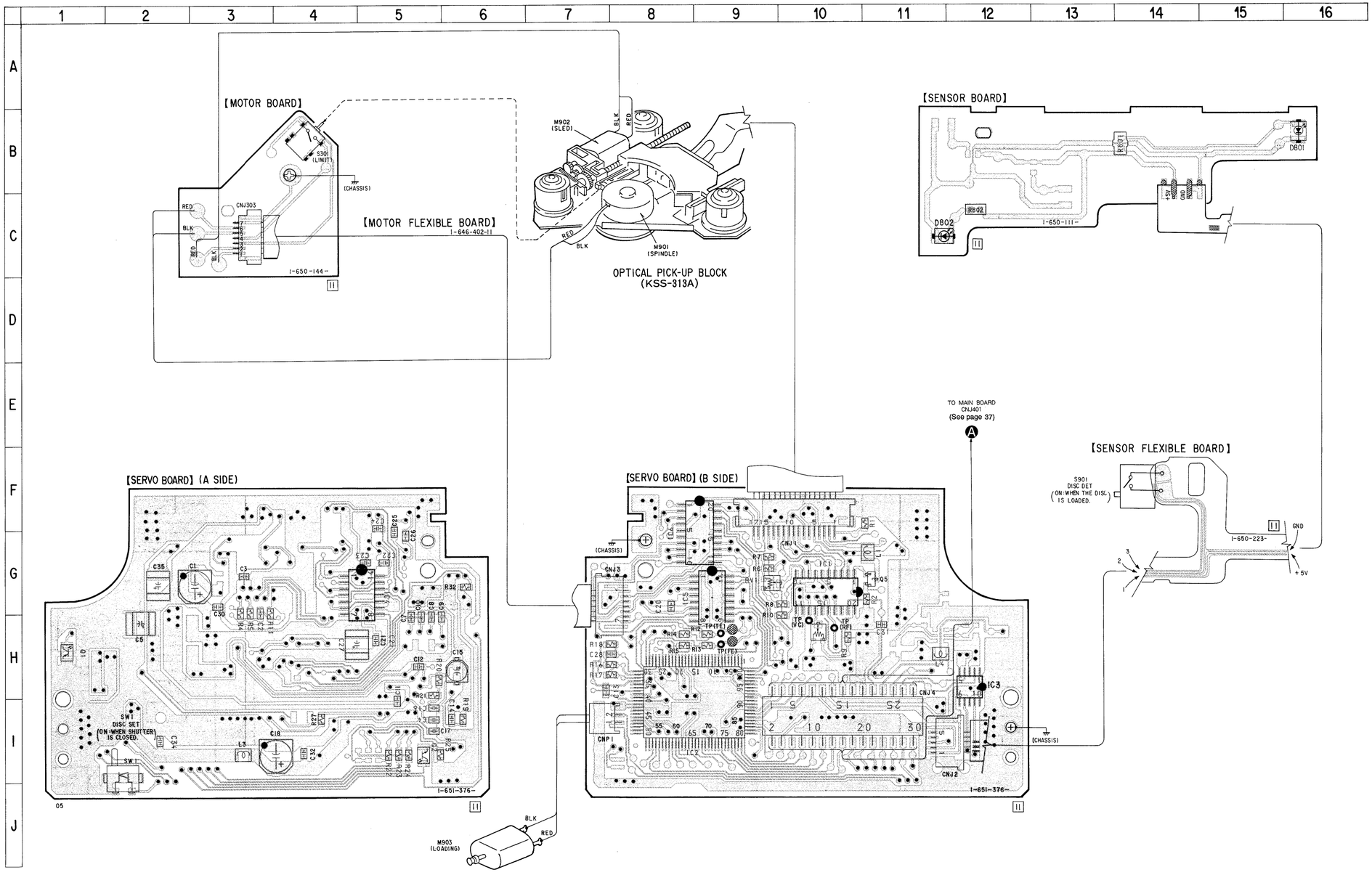


5-3. PRINTED WIRING BOARDS – MECHANISM DECK Section –

• See page 18 for Semiconductor Lead Layouts.

• Semiconductor Location

Ref. No.	Location
D801	B-16
D802	C-11
IC1	G-10
IC2	I-8
IC3	H-12
IC4	G-5
IC5	G-9
IC6	G-8
Q1	H-1
Q2	I-5
Q5	G-11

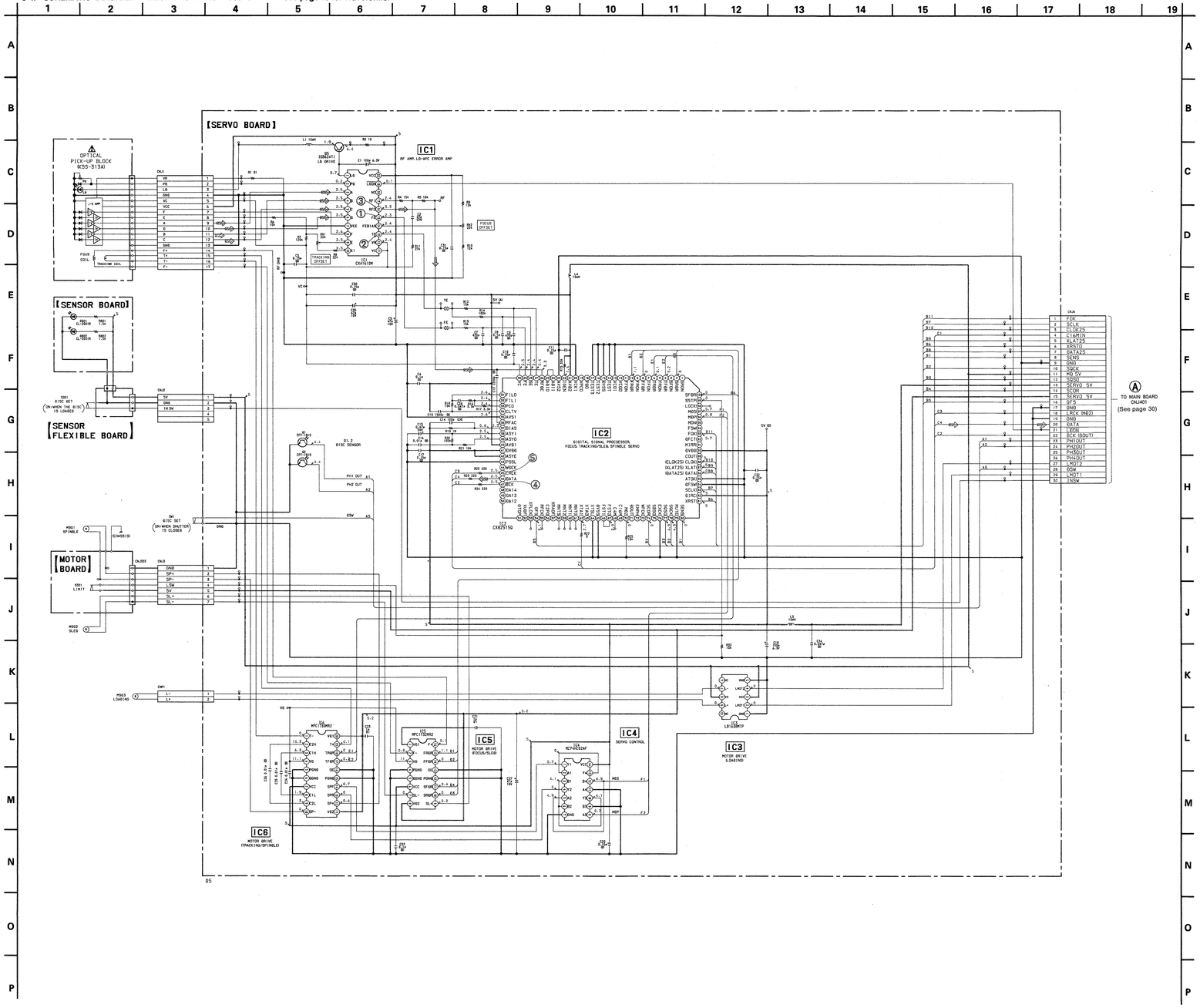


Note:

- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

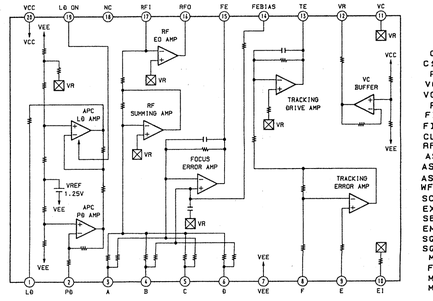
(The other layers' patterns are not indicated.)

5-4. SCHEMATIC DIAGRAM – MECHANISM DECK Section – • See page 43 for Waveforms.

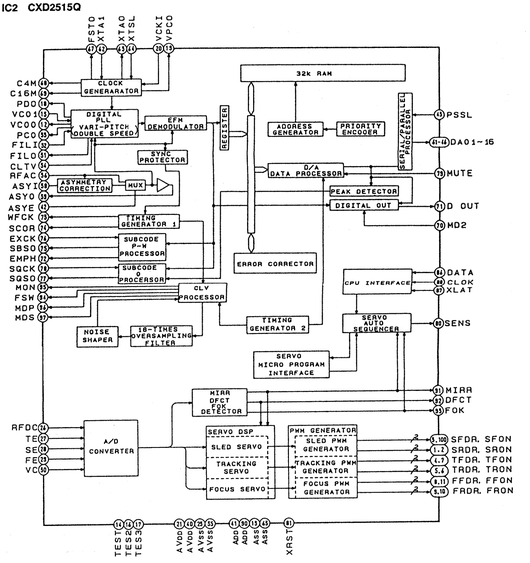

【SERVO BOARD】
OPTICAL PICK-UP BLOCK KCSS-313A
【SENSOR BOARD】
【SENSOR FLEXIBLE BOARD】
【MOTOR BOARD】
IC1 RF AMP, LD-APC ERROR AMP
IC2 DIGITAL SIGNAL PROCESSOR, FOCUS, TRACKING/SLED, SPINDLE SERVO
IC3 MOTOR DRIVE (LOADING)
IC4 SERVO CONTROL
IC5 MOTOR DRIVE (FOCUS/SLED)
IC6 MOTOR DRIVE (TRACKING/SPINDLE)
TO MAIN BOARD CN1401 (See page 30)

• IC Block Diagrams

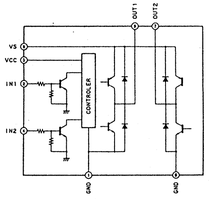
IC1 CXA1610M



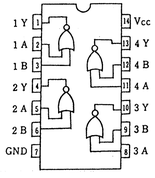
IC2 CXD2515Q



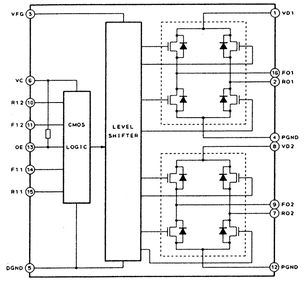
IC3 LB1638M



IC4 SN74HC02ANS



IC5 MPC1732MR2
IC6 MPC1730MR2



Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.

Note: The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

- ⟐ ═══ : B + Line.
- ⟐ ▭ : adjustment for repair.
- ⟐ Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- ⟐ Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  ( ) : CD
- ⟐ Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.
- ⟐ Waveforms are taken with a oscilloscope.
  Voltage variations may be noted due to normal production tolerances.
- ⟐ Circled numbers refer to waveforms.
- ⟐ Signal path.
  ⇨ : CD

SEE ADDITIONAL INFORMATION

[MAIN BOARD]

IC301 CD-I/F

IC401 DIGITAL-FILTER D/A CONVERTER

IC321 ELECTRONIC VOLUME

IC341 POWER AMP

IC311 TUNER AMP

IC502 D-RAM

IC503 GATE

IC501 TUNER CONTROL

IC701 SYSTEM CONTROL

IC671 RESET

IC601 REG

IC31 TUNER PLL

IC71 RDS DECORDER

IC51 SWITCH

IC31 LC7216M

IC321 CXA1646Q

IC401 SM5874AM-ET

IC502 LH5116NA

IC601 BA3910B-V3

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF
  50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⟐ : B + Line.
- ● : panel designation.
- ⟐ : adjustment for repair.
- ⟐ Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- ⟐ Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
  ( ) : CD
  < > : AM
- ⟐ Voltages are taken with a VOM (10 MΩ/V). Voltage variations may be noted due to normal production tolerances.
- ⟐ Waveforms are taken with a oscilloscope. Voltage variations may be noted due to normal production tolerances.
- ⟐ Circled numbers refer to waveforms.
- ⟐ Signal path.
  ⇨ : FM
  ⇨ : CD

5-6. PRINTED WIRING BOARD – MAIN Section –

• See page 18 for Semiconductor Lead Layouts.

• Semiconductor Location

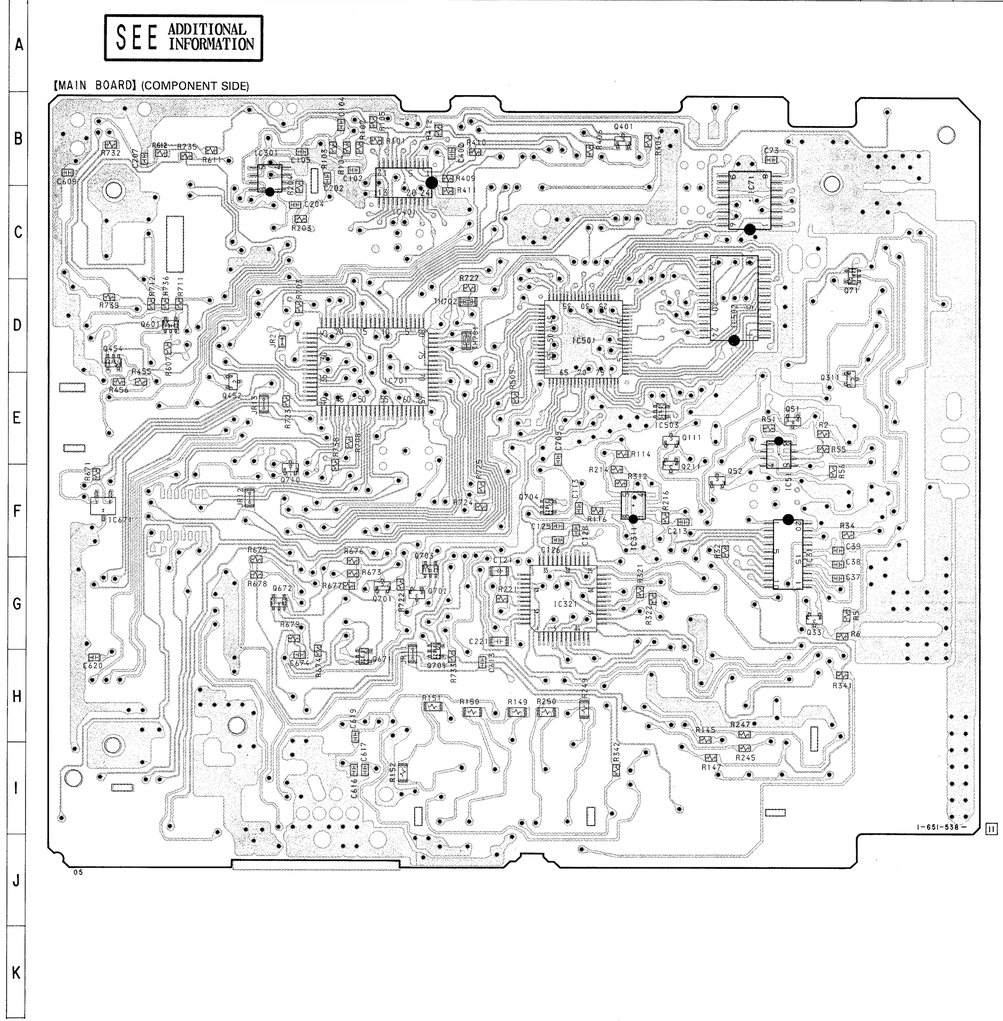
Ref. No.	Location	Ref. No.	Location	Ref. No.	Location
D1	E-12	D708	C-20	Q111	E-7
D31	G-14	D709	C-21	Q141	I-14
D311	F-16	D710	B-21	Q142	I-13
D341	I-15	D711	G-18	Q211	E-7
D342	H-18	D712	C-20	Q241	I-14
D343	H-18			Q242	I-13
D344	H-18	IC31	F-9	Q311	E-9
D345	H-17	IC51	E-9	Q401	B-7
D451	E-21	IC71	C-8	Q451	E-20
D501	D-17	IC301	B-3	Q452	E-3
D602	G-21	IC311	F-7	Q453	E-21
D603	G-20	IC321	G-6	Q454	D-1
D604	D-21	IC341	I-17	Q601	D-1
D605	H-19	IC401	B-5	Q602	D-21
D671	F-21	IC501	D-7	Q603	D-20
D672	G-18	IC502	D-8	Q604	D-20
D673	G-18	IC503	E-7	Q671	H-4
D674	G-19	IC601	H-21	Q672	G-3
D690	J-15	IC671	F-1	Q701	G-4
D691	J-15	IC701	D-4	Q702	G-5
D701	G-18			Q703	G-5
D702	F-19	Q1	E-13	Q704	F-6
D703	C-21	Q31	G-13	Q705	H-5
D704	C-21	Q33	G-9	Q710	F-3
D705	C-21	Q51	E-9	Q711	C-21
D706	C-20	Q52	F-8	Q712	C-21
D707	C-20	Q71	C-9		

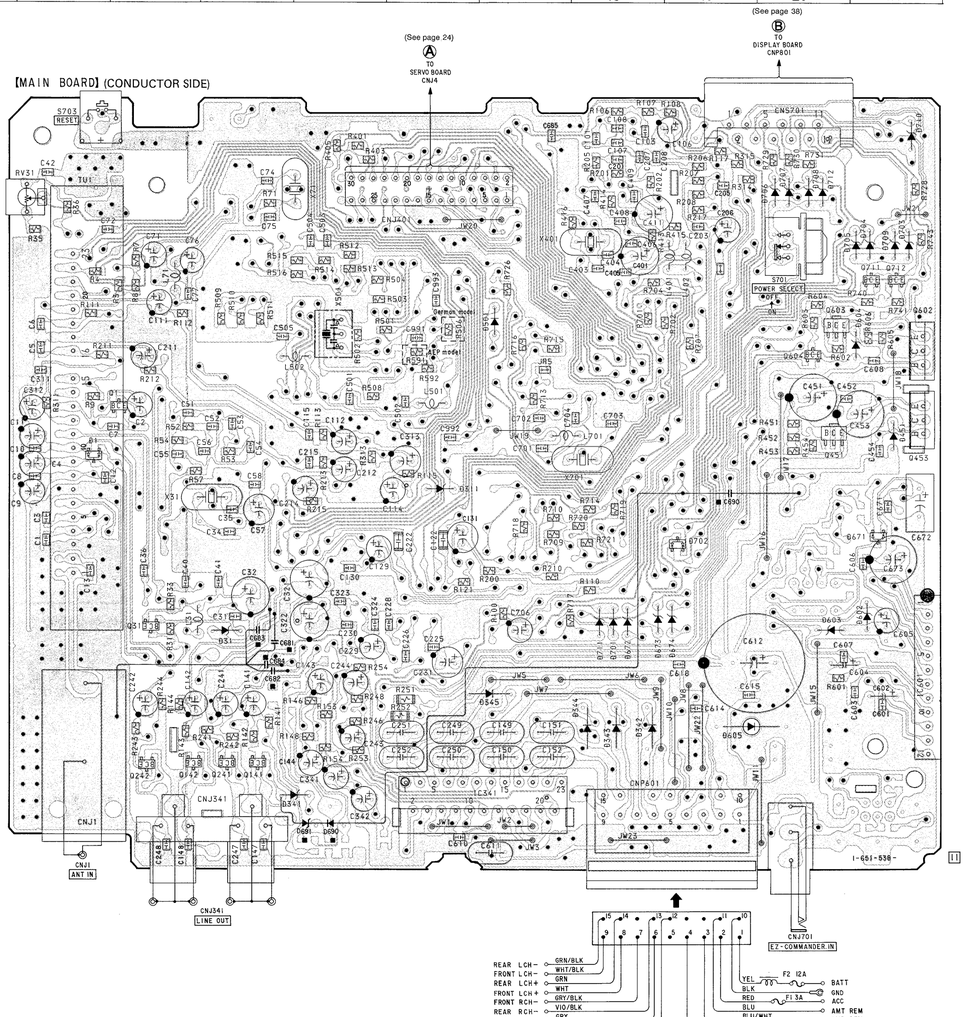
Note:

- ○——— : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:	
Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.





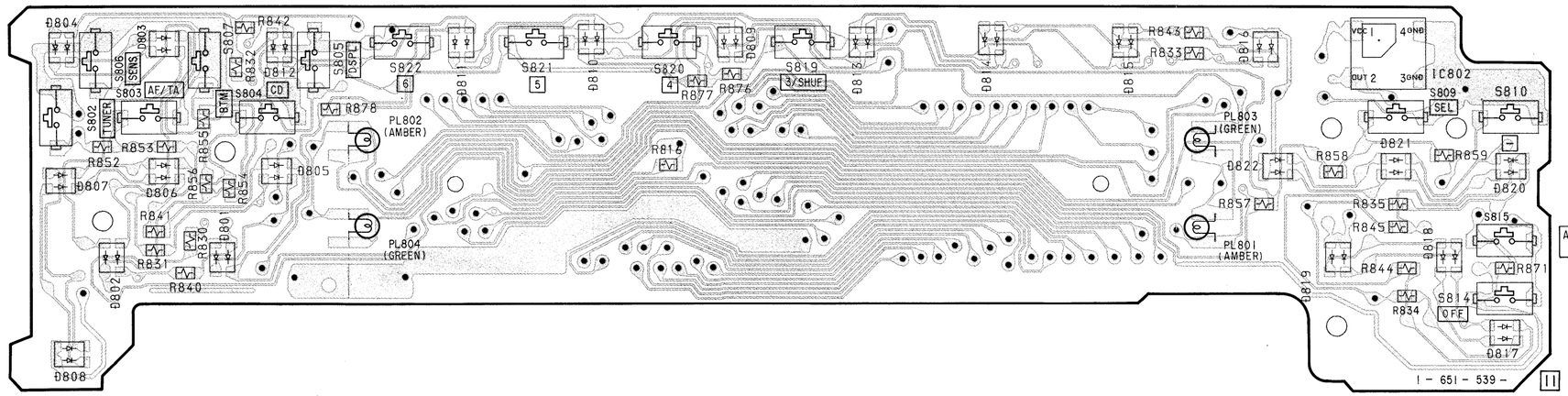
5-7. PRINTED WIRING BOARD – DISPLAY Section –

• See page 18 for Semiconductor Lead Layouts.

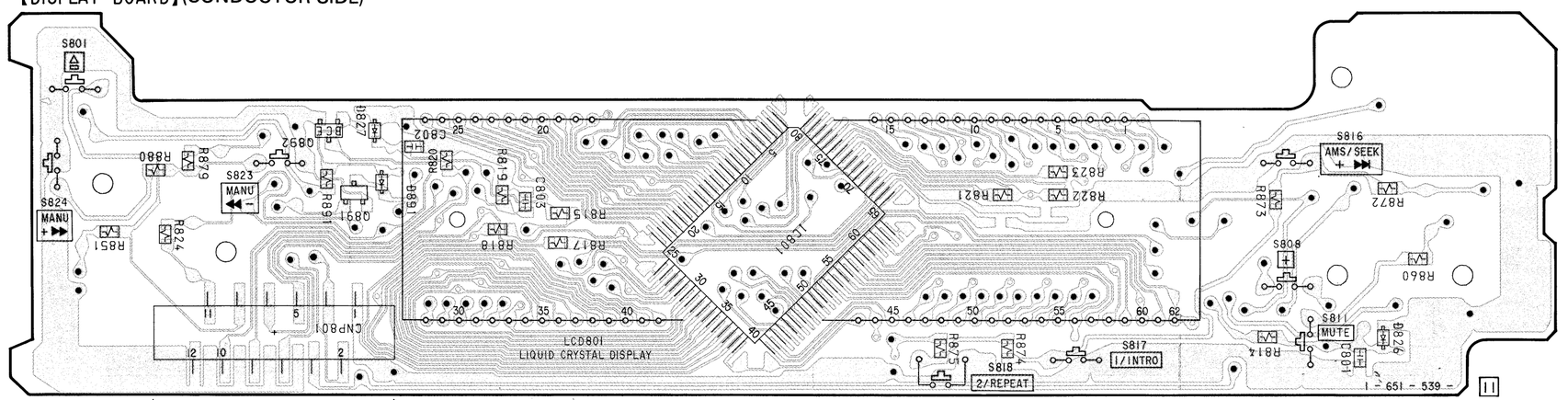
• **Semiconductor Location**

Ref. No.	Location
D801	E-4
D802	E-3
D803	B-3
D804	B-2
D805	C-5
D806	C-3
D807	D-2
D808	F-2
D809	B-11
D810	B-9
D811	B-7
D812	B-5
D813	B-12
D814	B-14
D815	B-16
D816	B-18
D817	F-21
D818	D-20
D819	D-19
D820	C-21
D821	C-19
D822	C-18
D826	K-19
D827	I-6
D891	I-6
IC801	J-11
IC802	B-19
Q891	I-6
Q892	I-5

【DISPLAY BOARD】(COMPONENT SIDE)



【DISPLAY BOARD】(CONDUCTOR SIDE)



TO MAIN BOARD CNS701

(See page 37)

Note:

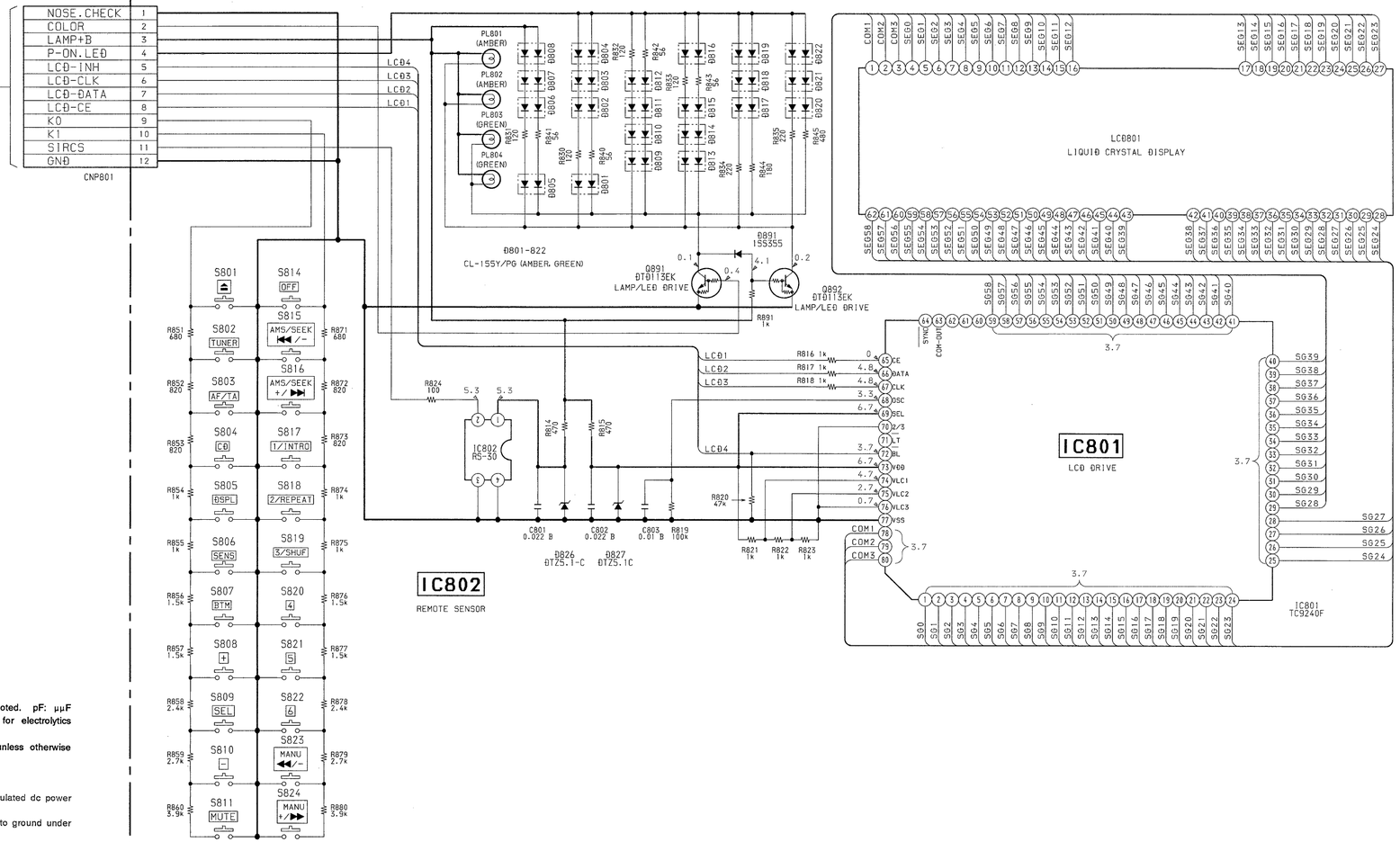
- ○——— : parts extracted from the component side.
- ● : Through hole.
- ▒▒▒ : Pattern from the side which enables seeing.

(The other layers' patterns are not indicated.)

Caution:

Pattern face side: (Conductor Side)	Parts on the pattern face side seen from the pattern face are indicated.
Parts face side: (Component Side)	Parts on the parts face side seen from the parts face are indicated.

【DISPLAY BOARD】



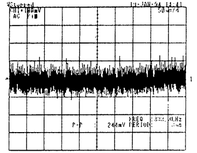
Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and ¼ W or less unless otherwise specified.
- ⏚ : B + Line.
- ▭ : panel designation.
- ⊛ Power voltage is dc 14.4 V and fed with regulated dc power supply from BATT and ACC terminals.
- ⊛ Voltages and waveforms are dc with respect to ground under no-signal (detuned) conditions.
  no mark : FM
- ⊛ Voltages are taken with a VOM (10 MΩ/V).
  Voltage variations may be noted due to normal production tolerances.

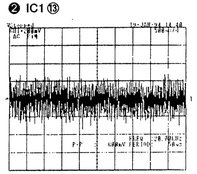
05

• Waveforms

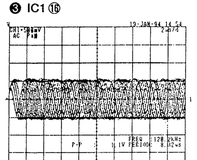
❶ IC1 ⑮



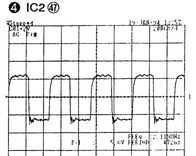
❷ IC1 ⑬



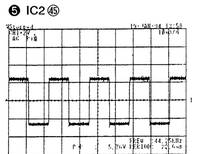
❸ IC1 ⑯



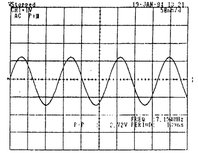
❹ IC2 ㊼



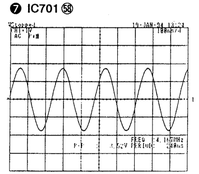
❺ IC2 ㊺



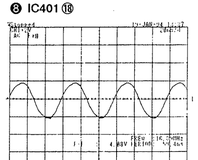
❻ IC31 ①



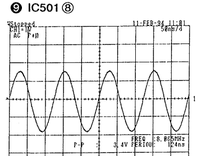
❼ IC701 ㊽



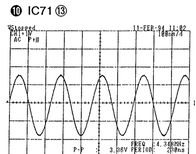
❽ IC401 ⑱



❾ IC501 ⑧



❿ IC71 ⑬



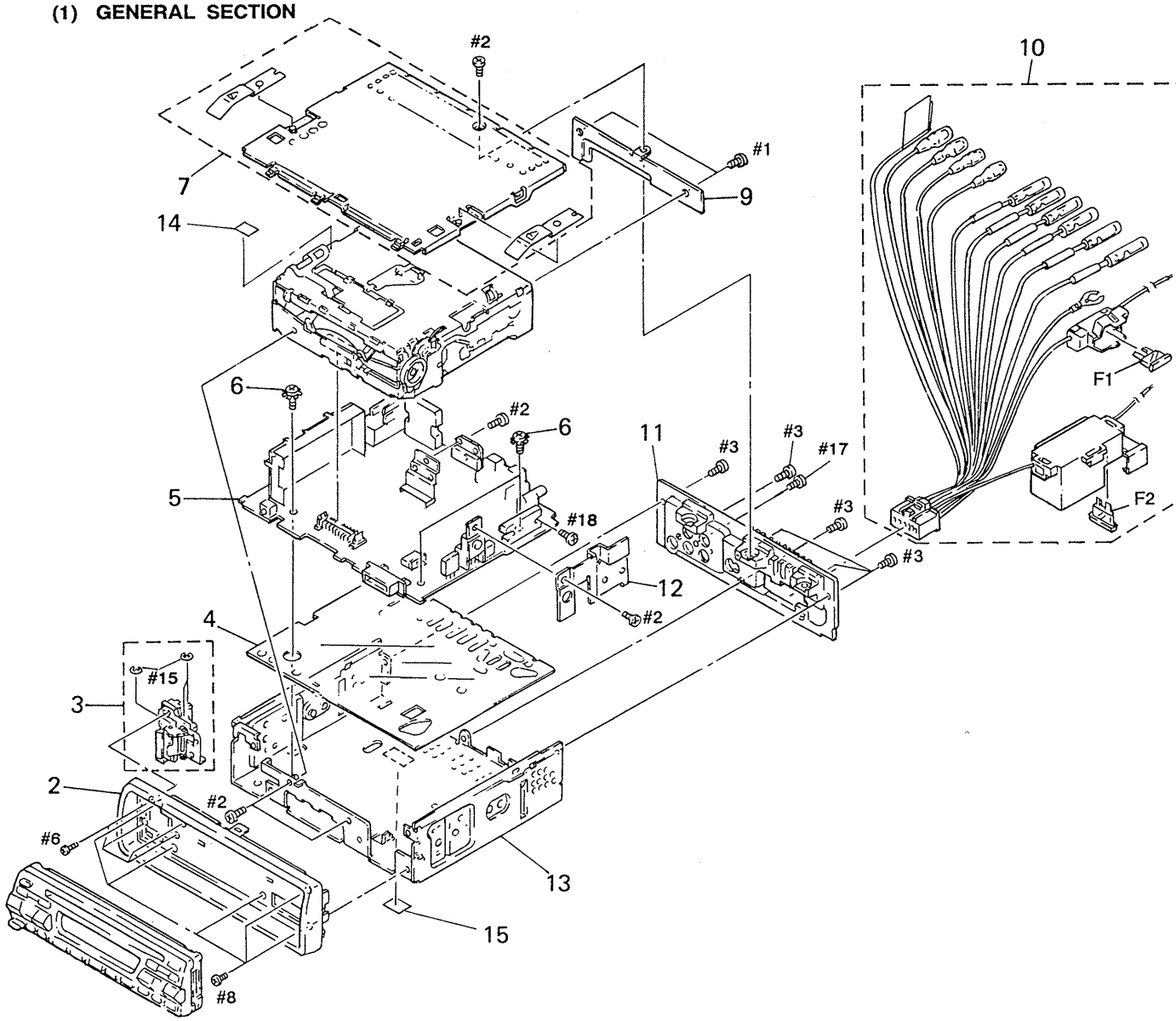
SECTION 6
EXPLODED VIEWS

NOTE:

- -XX and -X mean standardized parts, so they may have some difference from the original one.
- Color Indication of Appearance Parts
  Example:
  KNOB, BALANCE (WHITE) . . . (RED)
  ↑ ↑
  Parts Color Cabinet's Color
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- The mechanical parts with no reference number in the exploded views are not supplied.
- Hardware (# mark) list and accessories and packing materials are given in the last of this parts list.

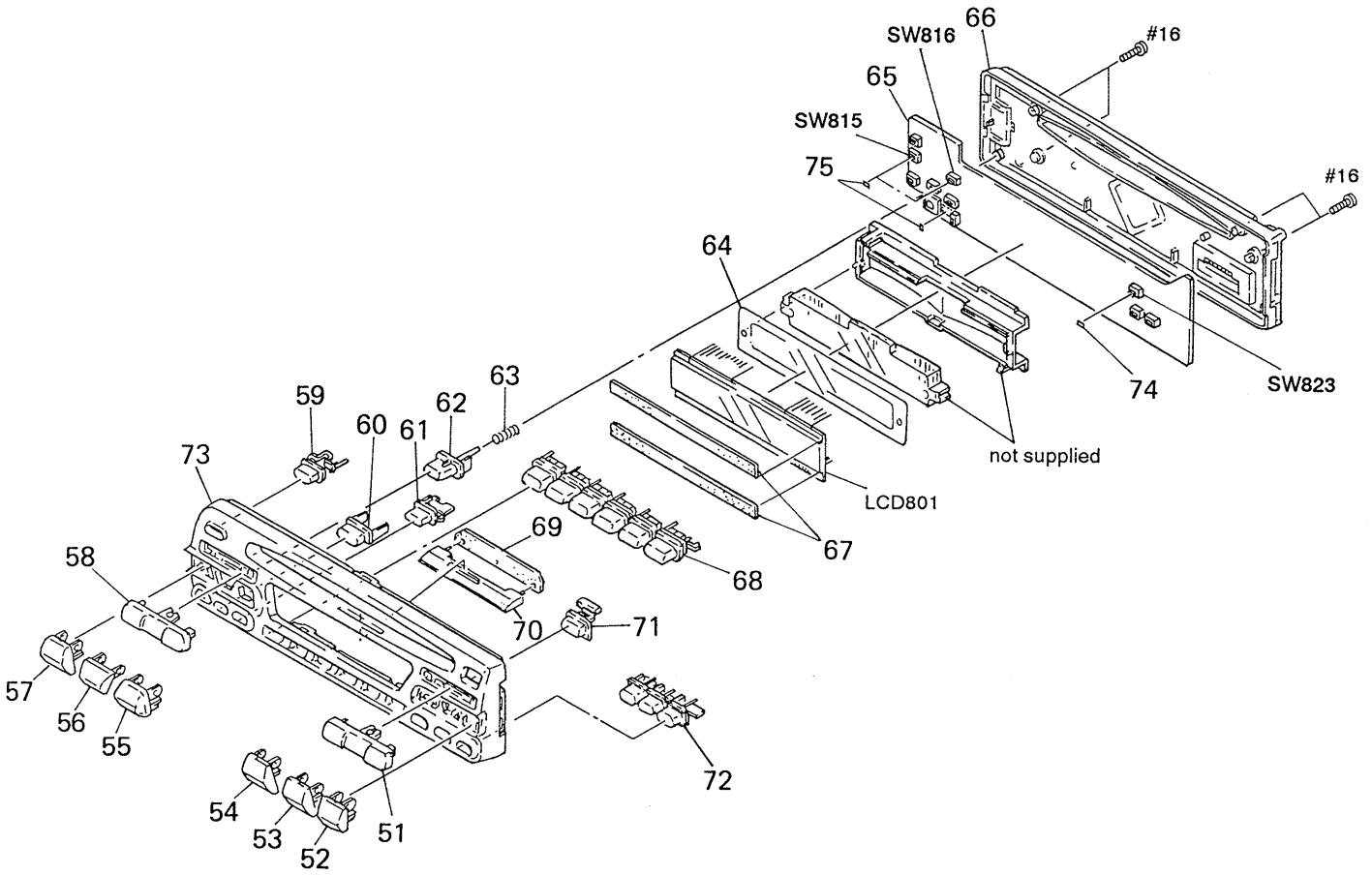
The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

(1) GENERAL SECTION



Ref. No.	Part No.	Description	Remark
2	X-3367-725-1	PANEL (SUB) ASSY	
3	X-3365-507-3	LOCK ASSY	
* 4	3-911-921-01	INSULATOR	
* 5	A-3295-957-A	MAIN BOARD, COMPLATE (AEP)	
* 5	A-3295-961-A	MAIN BOARD, COMPLETE (German)	
6	3-376-464-11	SCREW(+PTT 2.6X6), GROUND POINT	
7	X-3367-726-1	COVER ASSY	
* 9	3-909-336-01	BRACKET (MD)	
10	1-765-082-11	CORD (WITH CONNECTOR) 13P	
* 11	3-909-333-11	HEAT SINK	
* 12	3-909-314-01	HEAT SINK	
13	3-909-334-01	CHASSIS (MAIN)	
14	9-911-844-XX	SPACER, MOTOR	
* 15	4-941-548-01	LABEL, CLASS (1) (AEP)	
F1	1-533-326-11	FUSE (BLADE TYPE) (3A)	
F2	1-533-331-11	FUSE (BLADE TYPE) (15A)	

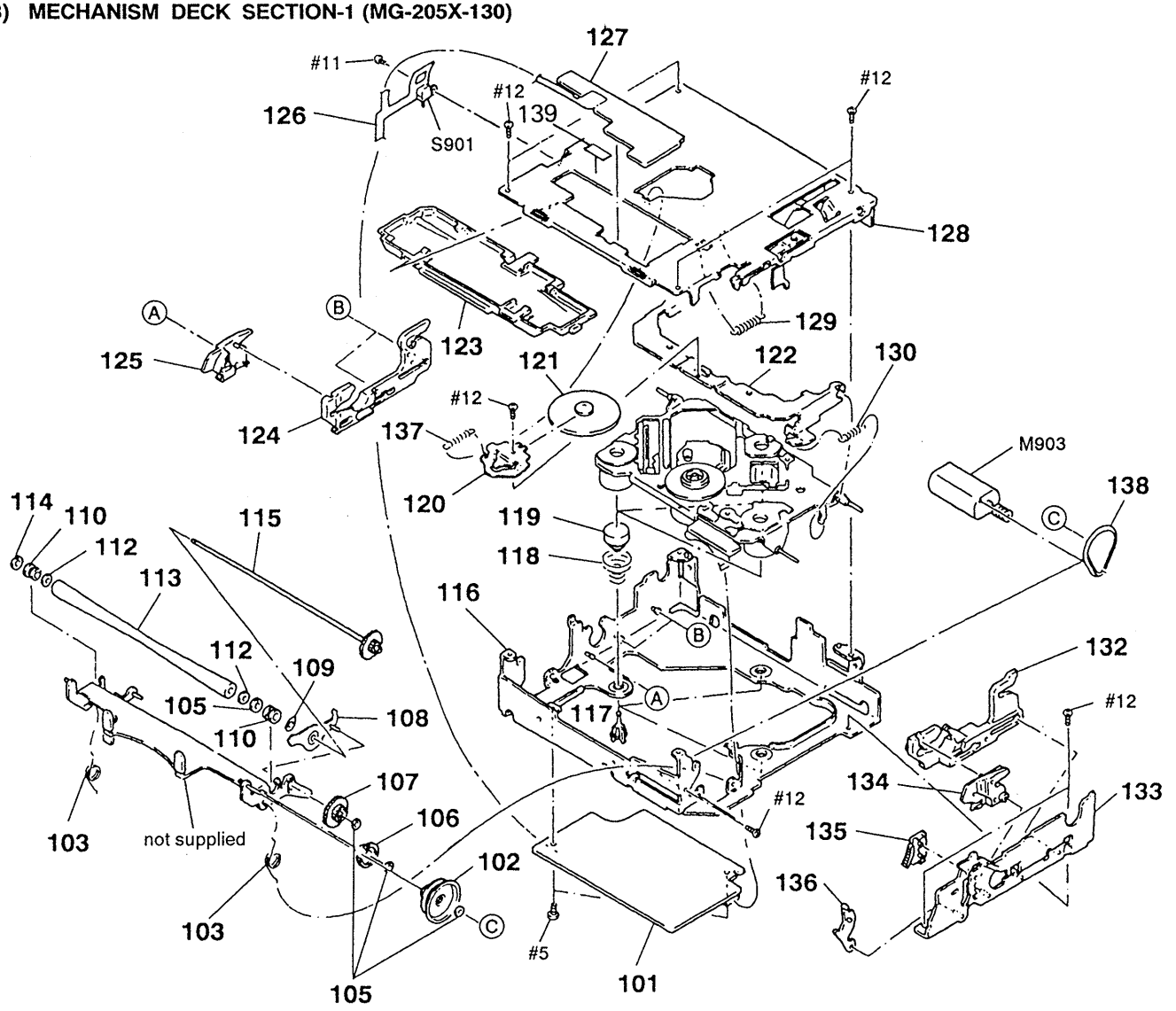
(2) FRONT PANEL SECTION



Ref. No.	Part No.	Description	Remark
51	3-908-765-01	BUTTON (MANU)	
52	3-909-321-01	BUTTON (TUNER)	
53	3-909-320-31	BUTTON (AF/TA)	
54	3-909-319-11	BUTTON (CD)	
55	3-909-318-01	BUTTON (+)	
56	3-909-317-01	BUTTON (SEL)	
57	3-909-316-01	BUTTON (-)	
58	3-908-764-01	BUTTON (AMS/SEEK)	
59	3-908-766-01	BUTTON (OFF)	
60	3-909-312-01	FILTER (RAY CATCHER)	
61	3-909-327-01	BUTTON (MUTE)	
62	3-909-326-01	BUTTON (RELEASE)	
63	3-914-590-01	SPRING (R2)	

Ref. No.	Part No.	Description	Remark
* 64	3-909-322-01	SHEET (ILLUMINATOR)	
* 65	A-3295-959-A	DISPLAY BOARD, COMPLETE	
66	3-909-310-01	PANEL, FRONT BACK	
67	3-911-575-01	SHEET (ELECTROSTATIC)	
68	3-908-763-01	BUTTON (1-6)	
69	3-909-313-01	SHEET (DOOR F)	
* 70	3-909-311-01	PLATE (C), LIGHT GUIDE	
71	3-908-761-01	BUTTON (EJECT)	
72	3-909-329-01	BUTTON (3 GANG)	
73	3-909-823-11	PANEL, FRONT	
* 74	4-918-544-11	SPACER (T)	
75	3-327-119-01	SPACER (A)	
LCD801	1-810-458-11	DISPLAY PANEL, LIQUID CRYSTAL	

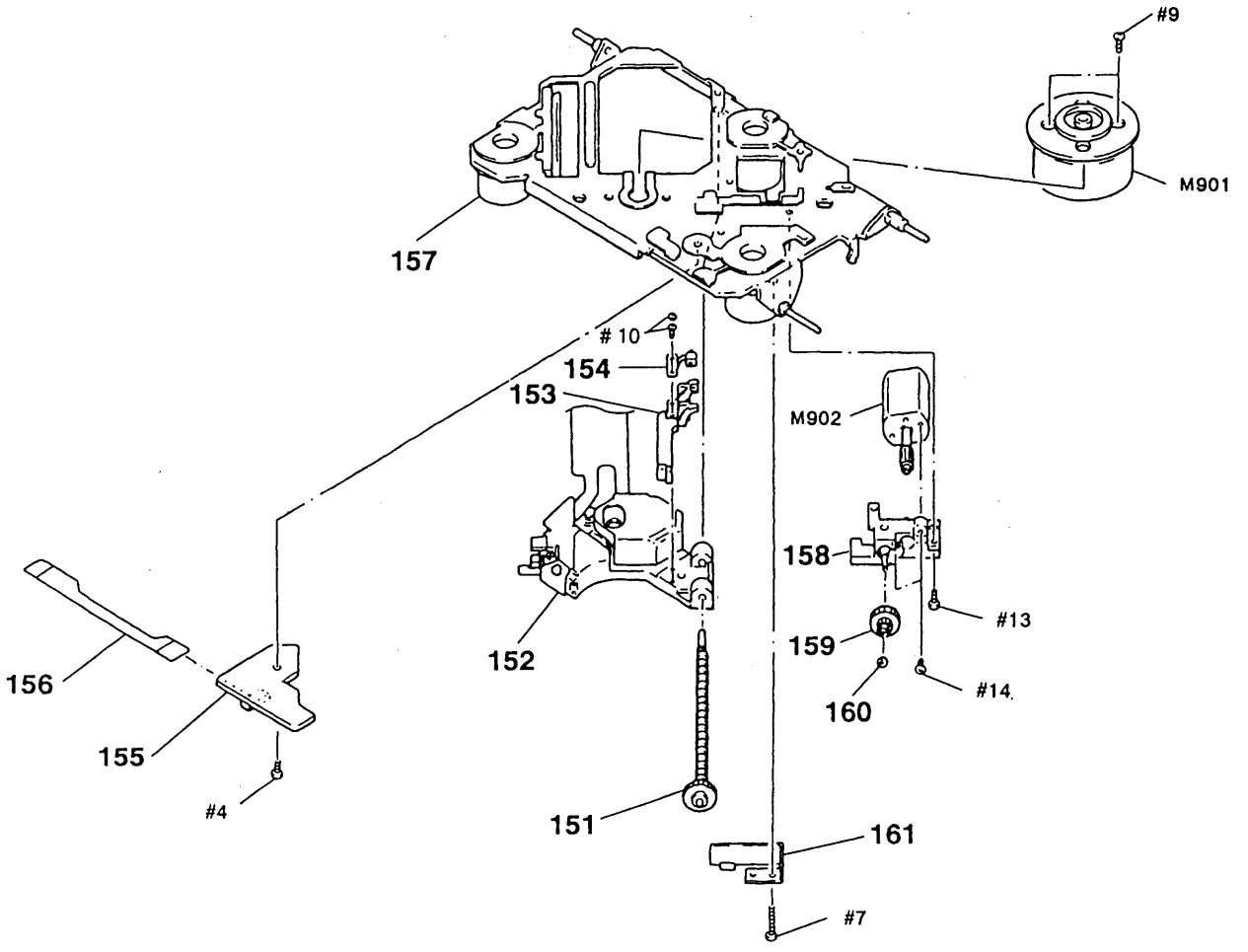
(3) MECHANISM DECK SECTION-1 (MG-205X-130)



Ref. No.	Part No.	Description	Remark
* 101	A-3295-950-A	SERVO BOARD, COMPLETE	
102	3-384-894-01	GEAR (R1)	
103	3-384-900-01	SPRING (PRESS)	
105	3-578-242-11	WASHER	
106	3-384-895-01	GEAR (R2)	
107	3-384-896-01	GEAR (DOWN)	
108	X-3366-858-3	ARM ASSY, FRICTION	
109	3-384-899-01	SPRING (FRICTION)	
110	3-384-892-01	BEARING (ROLLER)	
112	3-701-438-11	WASHER, 2.5	
113	3-377-484-01	ROLLER (T)	
114	3-386-150-01	RING (ROLLER), RETAINING	
115	A-3252-591-A	GEAR ASSY, ROLLER	
* 116	X-3366-852-1	CHASSIS (M) ASSY	
117	3-384-923-01	SHAFT (DAMPER)	
118	3-384-916-01	SPRING (FL)	
119	3-384-914-01	DAMPER	
* 120	3-384-915-11	BRACKET (CP)	
* 121	3-384-918-01	RETAINER (DISC)	
122	3-384-908-11	ARM, CHUCKING	
* 123	3-384-886-01	GUIDE (DISC)	

Ref. No.	Part No.	Description	Remark
124	3-384-888-01	SLIDER (L)	
125	3-384-887-01	LEVER (L)	
126	1-646-401-11	SENSOR FLEXIBLE BOARD	
127	A-3222-525-A	SENSOR BOARD, COMPLETE	
* 128	X-3366-854-1	CHASSIS (T) ASSY	
129	3-384-881-02	SPRING (12)	
130	3-384-917-01	SPRING (CH)	
132	X-3366-102-1	SLIDER (R) ASSY	
* 133	X-3365-911-1	CHASSIS (R) ASSY	
134	3-384-889-01	LEVER (R)	
135	3-384-897-01	GEAR (RACK)	
136	3-384-891-01	LEVER (ST)	
137	3-388-331-01	SPRING (T)	
138	3-387-776-01	BELT (L)	
* 139	3-704-132-01	LABEL (K), SELF	
M903	A-3252-580-A	MOTOR (L) ASSY (LOADING)	
S901	1-692-441-11	SWITCH, MICRO (DISC DET)	

(4) MECHANISM DECK SECTION-2 (MG-205X-130)



Ref. No.	Part No.	Description	Remark
151	A-3252-586-A	SHAFT (SL) ASSY	
⚠152	8-848-283-11	DEVICE, OPTICAL KSS-313A	
153	3-384-922-01	GEAR (SL FEED)	
154	3-384-921-01	SPRING (SL FEED)	
* 155	1-650-144-11	MOTOR BOARD	
156	1-646-402-11	MOTOR FLEXIBLE BOARD	
* 157	X-3365-916-1	CHASSIS (OPT) ASSY (OUTSERT)	
158	X-3366-100-1	BASE (DRIVING) ASSY	
159	3-384-912-01	GEAR (K2)	
160	3-570-615-00	POLY-WASHER (DIA. 1.2)	
161	3-384-913-11	SPRING (THRUST RETAINER)	
M901	X-3367-484-1	MOTOR (SPINDLE) ASSY	
M902	A-3252-585-A	MOTOR (SL) ASSY (SLED)	

The components identified by mark ⚠ or dotted line with mark ⚠ are critical for safety.
Replace only with part number specified.

SECTION 7
ELECTRICAL PARTS LIST

DISPLAY

NOTE:
- Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.
- -XX and -X mean standardized parts, so they may have some difference from the original one.
- RESISTORS
  All resistors are in ohms.
  METAL:Metal-film resistor.
  METAL OXIDE: Metal oxide-film resistor.
  F:nonflammable
- Items marked "*" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- SEMICONDUCTORS
  In each case, u:μ, for example:
  uA..: μA.. uPA..: μPA..
  uPB..: μPB.. uPC..: μPC.. uPD..: μPD..
- CAPACITORS
  uF: μF
- COILS
  uH: μH

The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board.

Ref.No.	Part No.	Description			Remark
*	A-3295-959-A	DISPLAY BOARD, COMPLETE **********			
*	3-909-322-01	SHEET (ILLUMINATOR)			
		< CAPACITOR >			
C801	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C802	1-163-037-11	CERAMIC CHIP	0.022uF	10% 25V	
C803	1-164-232-11	CERAMIC CHIP	0.01uF	50V	
		< CONNECTOR >			
CNP801	1-764-423-11	PIN, CONNECTOR 12P			
		< DIODE >			
D801	8-719-987-45	DIODE	CL-155Y/PG-CD		
D802	8-719-987-45	DIODE	CL-155Y/PG-CD		
D803	8-719-987-45	DIODE	CL-155Y/PG-CD		
D804	8-719-987-45	DIODE	CL-155Y/PG-CD		
D805	8-719-987-45	DIODE	CL-155Y/PG-CD		
D806	8-719-987-45	DIODE	CL-155Y/PG-CD		
D807	8-719-987-45	DIODE	CL-155Y/PG-CD		
D808	8-719-987-45	DIODE	CL-155Y/PG-CD		
D809	8-719-987-45	DIODE	CL-155Y/PG-CD		
D810	8-719-987-45	DIODE	CL-155Y/PG-CD		
D811	8-719-987-45	DIODE	CL-155Y/PG-CD		
D812	8-719-987-45	DIODE	CL-155Y/PG-CD		
D813	8-719-987-45	DIODE	CL-155Y/PG-CD		
D814	8-719-987-45	DIODE	CL-155Y/PG-CD		
D815	8-719-987-45	DIODE	CL-155Y/PG-CD		
D816	8-719-987-45	DIODE	CL-155Y/PG-CD		
D817	8-719-987-45	DIODE	CL-155Y/PG-CD		
D818	8-719-987-45	DIODE	CL-155Y/PG-CD		
D819	8-719-987-45	DIODE	CL-155Y/PG-CD		
D820	8-719-987-45	DIODE	CL-155Y/PG-CD		
D821	8-719-987-45	DIODE	CL-155Y/PG-CD		
D822	8-719-987-45	DIODE	CL-155Y/PG-CD		
D826	8-719-977-00	DIODE	DTZ5.1C		
D827	8-719-977-00	DIODE	DTZ5.1C		
D891	8-719-988-62	DIODE	1SS355		
		< IC >			
IC801	8-759-246-16	IC	TC9240F		
IC802	8-759-515-60	IC	RS-20		
		< LIQUID CRYSTAL DISPLAY >			
LCD801	1-810-458-11	DISPLAY PANEL, LIQUID CRYSTAL			
		< PILOT LAMP >			
PL801	1-517-181-21	LAMP, PILOT			
PL802	1-517-181-21	LAMP, PILOT			
PL803	1-517-181-11	LAMP, PILOT			
PL804	1-517-181-11	LAMP, PILOT			
		< TRANSISTOR >			
Q891	8-729-904-66	TRANSISTOR	DTD113EK		
Q892	8-729-904-66	TRANSISTOR	DTD113EK		
		< RESISTOR >			
R814	1-216-041-00	METAL CHIP	470	5% 1/10W	
R815	1-216-041-00	METAL CHIP	470	5% 1/10W	
R816	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R817	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R818	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R819	1-216-097-00	METAL CHIP	100K	5% 1/10W	
R820	1-216-089-00	METAL GLAZE	47K	5% 1/10W	
R821	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R822	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R823	1-216-049-00	METAL CHIP	1K	5% 1/10W	
R824	1-216-025-00	METAL CHIP	100	5% 1/10W	
R830	1-216-027-00	METAL CHIP	120	5% 1/10W	
R831	1-216-027-00	METAL CHIP	120	5% 1/10W	
R832	1-216-027-00	METAL CHIP	120	5% 1/10W	
R833	1-216-027-00	METAL CHIP	120	5% 1/10W	
R834	1-216-033-00	METAL CHIP	220	5% 1/10W	
R835	1-216-033-00	METAL CHIP	220	5% 1/10W	
R840	1-216-019-00	METAL CHIP	56	5% 1/10W	
R841	1-216-019-00	METAL CHIP	56	5% 1/10W	
R842	1-216-019-00	METAL CHIP	56	5% 1/10W	

Ref. No.	Part No.	Description			Remark
R843	1-216-019-00	METAL CHIP	56	5%	1/10W
R844	1-216-031-00	METAL CHIP	180	5%	1/10W
R845	1-216-031-00	METAL CHIP	180	5%	1/10W
R851	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R852	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R853	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R854	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R855	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R856	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R857	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R858	1-208-446-51	METAL GLAZE	2.4K	2%	1/10W
R859	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R860	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R871	1-216-647-11	METAL CHIP	680	0.5%	1/10W
R872	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R873	1-216-649-11	METAL CHIP	820	0.5%	1/10W
R874	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R875	1-216-651-11	METAL CHIP	1K	0.5%	1/10W
R876	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R877	1-216-655-11	METAL CHIP	1.5K	0.5%	1/10W
R878	1-208-446-51	METAL GLAZE	2.4K	2%	1/10W
R879	1-216-661-11	METAL CHIP	2.7K	0.5%	1/10W
R880	1-216-665-11	METAL CHIP	3.9K	0.5%	1/10W
R891	1-216-049-00	METAL CHIP	1K	5%	1/10W
		< SWITCH >			
S801	1-572-704-21	SWITCH, KEY BOARD (⏏)			
S802	1-692-386-21	SWITCH (TUNER)			
S803	1-692-386-21	SWITCH (AF/TA)			
S804	1-692-386-21	SWITCH (CD)			
S805	1-692-386-21	SWITCH (DSPL)			
S806	1-692-386-21	SWITCH (SENS)			
S807	1-692-386-21	SWITCH (BTM)			
S808	1-572-704-21	SWITCH, KEY BOARD (+)			
S809	1-692-386-21	SWITCH (SEL)			
S810	1-692-386-21	SWITCH (-)			
S811	1-572-704-21	SWITCH, KEY BOARD (MUTE)			
S814	1-692-386-21	SWITCH (OFF)			
S815	1-692-386-21	SWITCH (⏮/-(AMS/SEEK))			
S816	1-572-704-21	SWITCH, KEY BOARD (+/⏭(AMS/SEEK))			
S817	1-572-704-21	SWITCH, KEY BOARD (1/INTRO))			
S818	1-572-704-21	SWITCH, KEY BOARD (2/REPEAT)			
S819	1-692-386-21	SWITCH (3/SHUF)			
S820	1-692-386-21	SWITCH (4)			
S821	1-692-386-21	SWITCH (5)			
S822	1-692-386-21	SWITCH (6)			
S823	1-572-704-21	SWITCH, KEY BOARD (⏪/-(MANU))			
S824	1-572-704-21	SWITCH, KEY BOARD (+/⏩(MANU))			

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Ref. No.	Part No.	Description			Remark
*	A-3295-957-A	MAIN BOARD, COMPLETE (AEP)			
		**********			
*	A-3295-961-A	MAIN BOARD, COMPLETE (German)			
		**********			
	9-911-841-XX	CUSHION			
	7-682-547-04	SCREW +PTT 3X6 (S)			
		< CAPACITOR >			
C1	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C2	1-124-234-00	ELECT	22uF	20%	16V
C3	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C4	1-126-157-11	ELECT	10uF	20%	16V
C5	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C6	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C7	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C8	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C9	1-126-157-11	ELECT	10uF	20%	16V
C10	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C11	1-126-157-11	ELECT	10uF	20%	16V
C12	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C13	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C31	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C32	1-124-584-00	ELECT	100uF	20%	10V
C34	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C35	1-163-237-11	CERAMIC CHIP	27PF	5%	50V
C36	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C37	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C38	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C39	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C40	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C41	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C42	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C51	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C52	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C53	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C54	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C55	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C56	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C57	1-124-234-00	ELECT	22uF	20%	16V
C58	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C71	1-124-257-00	ELECT	2.2uF	20%	50V
C72	1-163-125-00	CERAMIC CHIP	220PF	5%	50V
C73	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C74	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C75	1-163-245-11	CERAMIC CHIP	56PF	5%	50V
C76	1-124-465-00	ELECT	0.47uF	20%	50V
C77	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C101	1-163-251-11	CERAMIC CHIP	100PF	5%	50V

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description			Remark
C102	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C104	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C105	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C106	1-124-465-00	ELECT	0.47uF	20%	50V
C107	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C108	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C111	1-126-160-11	ELECT	1uF	20%	50V
C112	1-126-160-11	ELECT	1uF	20%	50V
C113	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C114	1-124-465-00	ELECT	0.47uF	20%	50V
C115	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C121	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C122	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C125	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C126	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C128	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C129	1-126-157-11	ELECT	10uF	20%	16V
C130	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C131	1-131-363-00	TANTALUM	4.7uF	10%	20V
C141	1-126-157-11	ELECT	10uF	20%	16V
C142	1-126-157-11	ELECT	10uF	20%	16V
C143	1-126-160-11	ELECT	1uF	20%	50V
C144	1-126-160-11	ELECT	1uF	20%	50V
C147	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C148	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C149	1-136-165-00	FILM	0.1uF	5%	50V
C150	1-136-165-00	FILM	0.1uF	5%	50V
C151	1-136-165-00	FILM	0.1uF	5%	50V
C152	1-136-165-00	FILM	0.1uF	5%	50V
C201	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C202	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C203	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C204	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C205	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C206	1-124-465-00	ELECT	0.47uF	20%	50V
C207	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C208	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C211	1-126-160-11	ELECT	1uF	20%	50V
C212	1-126-160-11	ELECT	1uF	20%	50V
C213	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C214	1-124-465-00	ELECT	0.47uF	20%	50V
C215	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C221	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C222	1-164-337-11	CERAMIC CHIP	2.2uF		16V
C225	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C226	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C228	1-163-017-00	CERAMIC CHIP	0.0047uF	5%	50V
C229	1-126-157-11	ELECT	10uF	20%	16V
C230	1-164-489-11	CERAMIC CHIP	0.22uF	10%	16V
C231	1-131-363-00	TANTALUM	4.7uF	10%	20V
C241	1-126-157-11	ELECT	10uF	20%	16V
C242	1-126-157-11	ELECT	10uF	20%	16V
C243	1-126-160-11	ELECT	1uF	20%	50V
C244	1-126-160-11	ELECT	1uF	20%	50V
C247	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C248	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C249	1-136-165-00	FILM	0.1uF	5%	50V
C250	1-136-165-00	FILM	0.1uF	5%	50V
C251	1-136-165-00	FILM	0.1uF	5%	50V
C252	1-136-165-00	FILM	0.1uF	5%	50V
C311	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V (German)
C311	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V (AEP)
C312	1-124-464-11	ELECT	0.22uF	20%	50V
C313	1-124-234-00	ELECT	22uF	20%	16V
C321	1-124-584-00	ELECT	100uF	20%	10V
C322	1-124-234-00	ELECT	22uF	20%	16V
C323	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C324	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C341	1-126-157-11	ELECT	10uF	20%	16V
C342	1-126-163-11	ELECT	4.7uF	20%	50V
C401	1-124-584-00	ELECT	100uF	20%	10V
C402	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C403	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C404	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C405	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C406	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C407	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C408	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C409	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C411	1-124-584-00	ELECT	100uF	20%	10V
C451	1-124-584-00	ELECT	100uF	20%	10V
C452	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C453	1-124-584-00	ELECT	100uF	20%	10V
C454	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C501	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C502	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C503	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C504	1-164-346-11	CERAMIC CHIP	1uF		16V
C505	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C601	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C602	1-131-353-00	TANTALUM	10uF	10%	35V
C603	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C604	1-131-353-00	TANTALUM	10uF	10%	35V
C605	1-126-157-11	ELECT	10uF	20%	16V
C606	1-164-222-11	CERAMIC CHIP	0.22uF		25V

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
C607	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C608	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C609	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C610	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C611	1-136-169-00	FILM	0.22uF	5%	50V
C612	1-128-489-11	ELECT	3300uF	20%	16V
C613	1-163-009-11	CERAMIC CHIP	0.001uF	10%	50V
C614	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C615	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C616	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C617	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C618	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C619	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C620	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C671	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C672	1-125-705-11	CAP, DOUBLE LAYERS	0.22F		
C673	1-124-584-00	ELECT	100uF	20%	10V
C674	1-164-346-11	CERAMIC CHIP	1uF		16V
C675	1-162-306-11	CERAMIC	0.01uF	20%	16V
C676	1-162-306-11	CERAMIC	0.01uF	20%	16V
C681	1-162-294-31	CERAMIC	0.001uF	10%	50V
C682	1-162-294-31	CERAMIC	0.001uF	10%	50V
C683	1-162-294-31	CERAMIC	0.001uF	10%	50V
C684	1-162-294-31	CERAMIC	0.001uF	10%	50V
C685	1-162-306-11	CERAMIC	0.01uF	20%	16V
C690	1-161-494-00	CERAMIC	0.022uF		25V
C701	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C702	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C703	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C704	1-163-229-11	CERAMIC CHIP	12PF	5%	50V
C705	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C706	1-124-465-00	ELECT	0.47uF	20%	50V
C707	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C991	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C992	1-163-037-11	CERAMIC CHIP	0.022uF	10%	25V
C993	1-164-232-11	CERAMIC CHIP	0.01uF		50V

< JACK >

CNJ1	1-764-808-11	JACK (ANT)
CNJ341	1-764-697-31	JACK, PIN 4P (LINE OUT)
CNJ701	1-566-822-11	JACK (EZ-COMMANDER IN)

< CONNECTOR >

CNJ401	1-764-617-11	PIN, CONNECTOR (PC BOARD) 30P
CNP601	1-764-426-11	PLUG, CONNECTOR 15P
CNS701	1-764-422-11	PLUG, CONNECTOR 12P

Ref. No.	Part No.	Description		Remark

< DIODE >

D1	8-719-992-02	DIODE	RB705D
D31	8-719-109-89	DIODE	RD5.6ESB2
D311	8-719-109-89	DIODE	RD5.6ESB2
D341	8-719-109-72	DIODE	RD3.9ES-B2
D342	8-719-200-02	DIODE	10E2
D343	8-719-200-02	DIODE	10E2
D344	8-719-200-02	DIODE	10E2
D345	8-719-200-02	DIODE	10E2
D451	8-719-109-89	DIODE	RD5.6ESB2
D501	8-719-911-19	DIODE	1SS119
D602	8-719-110-49	DIODE	RD18ES-B2
D603	8-719-048-50	DIODE	MTZJ-T-77-20B
D604	8-719-921-80	DIODE	MTZJ-11B
D605	8-719-945-59	DIODE	DSA3A4
D671	8-719-914-44	DIODE	DAP202K
D672	8-719-109-97	DIODE	RD6.8ES-B2
D673	8-719-110-49	DIODE	RD18ES-B2
D674	8-719-109-97	DIODE	RD6.8ES-B2
D690	8-719-901-33	DIODE	1SS133
D691	8-719-981-89	DIODE	MTZJ-2.2B
D701	8-719-911-19	DIODE	1SS119
D702	8-719-914-44	DIODE	DAP202K
D703	8-719-109-97	DIODE	RD6.8ES-B2
D704	8-719-109-97	DIODE	RD6.8ES-B2
D705	8-719-109-97	DIODE	RD6.8ES-B2
D706	8-719-109-97	DIODE	RD6.8ES-B2
D707	8-719-109-97	DIODE	RD6.8ES-B2
D708	8-719-109-97	DIODE	RD6.8ES-B2
D709	8-719-109-97	DIODE	RD6.8ES-B2
D710	8-719-109-97	DIODE	RD6.8ES-B2
D711	8-719-109-97	DIODE	RD6.8ES-B2
D712	8-719-109-97	DIODE	RD6.8ES-B2

< IC >

IC31	8-759-823-81	IC	LC7216M
IC51	8-759-242-66	IC	TC4W66F
IC71	8-759-065-98	IC	SAA6579T
IC301	8-759-100-96	IC	uPC4558G2
IC311	8-759-100-96	IC	uPC4558G2
IC321	8-752-063-44	IC	CXA1646Q
IC341	8-759-260-77	IC	HA13150A
IC401	8-759-196-57	IC	SM5874AM-ET
IC501	8-759-259-09	IC	MN1882417SNU2
IC502	8-759-168-53	IC	LH5116N3
IC503	8-759-038-46	IC	SC7S00F
IC601	8-759-182-76	IC	BA3910B-V3
IC671	8-759-167-83	IC	PST600EMT-T1

MAIN

SEE ADDITIONAL INFORMATION

Ref. No.	Part No.	Description				Remark
IC701	8-759-257-99	IC uPD75518GF-165-3B9				
		< JUMPER RESISTOR >				
JR2	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR5	1-216-295-00	METAL CHIP	0	5%	1/10W	
JR11	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR12	1-216-296-00	METAL GLAZE	0	5%	1/8W	
JR13	1-216-296-00	METAL GLAZE	0	5%	1/8W	
		< COIL >				
L31	1-410-513-11	INDUCTOR	22uH			
L71	1-410-513-11	INDUCTOR	22uH			
L401	1-410-513-11	INDUCTOR	22uH			
L402	1-410-513-11	INDUCTOR	22uH			
L501	1-410-513-11	INDUCTOR	22uH			
L502	1-410-513-11	INDUCTOR	22uH			
L701	1-410-513-11	INDUCTOR	22uH			
		< TRANSISTOR >				
Q1	8-729-900-53	TRANSISTOR	DTC114EK			
Q31	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q33	8-729-901-04	TRANSISTOR	DTA114EK			
Q51	8-729-021-94	TRANSISTOR	2SK1657-T1B			
Q52	8-729-900-53	TRANSISTOR	DTC114EK			
Q71	8-729-921-25	TRANSISTOR	FMC2			
Q111	8-729-902-XX	TRANSISTOR	DTC114TK-T146			
Q141	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q142	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q211	8-729-902-XX	TRANSISTOR	DTC114TK-T146			
Q241	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q242	8-729-920-21	TRANSISTOR	DTC314TKH04			
Q311	8-729-901-00	TRANSISTOR	DTC124EK			
Q401	8-729-901-00	TRANSISTOR	DTC124EK			
Q451	8-729-422-87	TRANSISTOR	2SB1073-R			
Q452	8-729-901-00	TRANSISTOR	DTC124EK			
Q453	8-729-019-00	TRANSISTOR	2SD2394-G			
Q454	8-729-921-25	TRANSISTOR	FMC2			
Q601	8-729-921-25	TRANSISTOR	FMC2			
Q602	8-729-019-00	TRANSISTOR	2SD2394-G			
Q603	8-729-106-60	TRANSISTOR	2SB1115A			
Q604	8-729-901-00	TRANSISTOR	DTC124EK			
Q671	8-729-920-28	TRANSISTOR	FMG9			
Q672	8-729-903-10	TRANSISTOR	FMW1			
Q701	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
Q702	8-729-901-00	TRANSISTOR	DTC124EK			
Q703	8-729-921-25	TRANSISTOR	FMC2			
Q704	8-729-921-25	TRANSISTOR	FMC2			
Q705	8-729-921-25	TRANSISTOR	FMC2			
Q710	8-729-901-00	TRANSISTOR	DTC124EK			
Q711	8-729-216-22	TRANSISTOR	2SA1162-G			
Q712	8-729-120-28	TRANSISTOR	2SC1623-L5L6			
		< RESISTOR >				
R2	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R3	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R4	1-216-025-00	METAL CHIP	100	5%	1/10W	
R5	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R6	1-216-045-00	METAL CHIP	680	5%	1/10W	
R7	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R8	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R9	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R31	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R33	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R34	1-216-037-00	METAL CHIP	330	5%	1/10W	
R35	1-216-105-00	METAL CHIP	220K	5%	1/10W	
R36	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R51	1-216-049-00	METAL CHIP	1K	5%	1/10W	
R52	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R53	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R54	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R55	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R56	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R57	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R71	1-216-057-00	METAL CHIP	2.2K	5%	1/10W	
R100	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R101	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R102	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R103	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R104	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R105	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R106	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R107	1-216-085-00	METAL CHIP	33K	5%	1/10W	
R108	1-216-093-00	METAL CHIP	68K	5%	1/10W	
R110	1-216-053-00	METAL CHIP	1.5K	5%	1/10W	
R111	1-216-061-00	METAL CHIP	3.3K	5%	1/10W	
R112	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	
R113	1-216-065-00	METAL CHIP	4.7K	5%	1/10W	(AEP)
R113	1-216-073-00	METAL CHIP	10K	5%	1/10W	(German)
R114	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R115	1-216-081-00	METAL CHIP	22K	5%	1/10W	
R116	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R117	1-216-097-00	METAL CHIP	100K	5%	1/10W	
R121	1-216-089-00	METAL GLAZE	47K	5%	1/10W	
R141	1-216-041-00	METAL CHIP	470	5%	1/10W	
R142	1-216-073-00	METAL CHIP	10K	5%	1/10W	
R143	1-216-041-00	METAL CHIP	470	5%	1/10W	
R144	1-216-073-00	METAL CHIP	10K	5%	1/10W	

SEE ADDITIONAL INFORMATION

MAIN

Ref. No.	Part No.	Description			Remark
R145	1-216-049-00	METAL CHIP	1K	5%	1/10W
R146	1-216-117-00	METAL CHIP	680K	5%	1/10W
R147	1-216-049-00	METAL CHIP	1K	5%	1/10W
R148	1-216-117-00	METAL CHIP	680K	5%	1/10W
R149	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R150	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R151	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R152	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R153	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R154	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R200	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R201	1-216-081-00	METAL CHIP	22K	5%	1/10W
R202	1-216-081-00	METAL CHIP	22K	5%	1/10W
R203	1-216-085-00	METAL CHIP	33K	5%	1/10W
R204	1-216-093-00	METAL CHIP	68K	5%	1/10W
R205	1-216-081-00	METAL CHIP	22K	5%	1/10W
R206	1-216-081-00	METAL CHIP	22K	5%	1/10W
R207	1-216-085-00	METAL CHIP	33K	5%	1/10W
R208	1-216-093-00	METAL CHIP	68K	5%	1/10W
R210	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R211	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R212	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R213	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (AEP)
R213	1-216-073-00	METAL CHIP	10K	5%	1/10W (German)
R214	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R215	1-216-081-00	METAL CHIP	22K	5%	1/10W
R216	1-216-097-00	METAL CHIP	100K	5%	1/10W
R217	1-216-097-00	METAL CHIP	100K	5%	1/10W
R221	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R241	1-216-041-00	METAL CHIP	470	5%	1/10W
R242	1-216-073-00	METAL CHIP	10K	5%	1/10W
R243	1-216-041-00	METAL CHIP	470	5%	1/10W
R244	1-216-073-00	METAL CHIP	10K	5%	1/10W
R245	1-216-049-00	METAL CHIP	1K	5%	1/10W
R246	1-216-117-00	METAL CHIP	680K	5%	1/10W
R247	1-216-049-00	METAL CHIP	1K	5%	1/10W
R248	1-216-117-00	METAL CHIP	680K	5%	1/10W
R249	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R250	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R251	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R252	1-216-134-00	METAL CHIP	2.2	5%	1/8W
R253	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R254	1-216-067-00	METAL CHIP	5.6K	5%	1/10W
R311	1-216-057-00	METAL CHIP	2.2K	5%	1/10W (AEP)
R311	1-216-065-00	METAL CHIP	4.7K	5%	1/10W (German)
R312	1-216-073-00	METAL CHIP	10K	5%	1/10W
R313	1-216-073-00	METAL CHIP	10K	5%	1/10W
R314	1-216-073-00	METAL CHIP	10K	5%	1/10W
R315	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description			Remark
R321	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R322	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R341	1-216-081-00	METAL CHIP	22K	5%	1/10W
R342	1-216-073-00	METAL CHIP	10K	5%	1/10W
R401	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R403	1-216-105-00	METAL CHIP	220K	5%	1/10W
R404	1-216-105-00	METAL CHIP	220K	5%	1/10W
R405	1-216-105-00	METAL CHIP	220K	5%	1/10W
R406	1-216-049-00	METAL CHIP	1K	5%	1/10W
R409	1-216-037-00	METAL CHIP	330	5%	1/10W
R410	1-216-025-00	METAL CHIP	100	5%	1/10W
R411	1-216-025-00	METAL CHIP	100	5%	1/10W
R412	1-216-025-00	METAL CHIP	100	5%	1/10W
R413	1-216-001-00	METAL CHIP	10	5%	1/10W
R414	1-216-001-00	METAL CHIP	10	5%	1/10W
R415	1-216-001-00	METAL CHIP	10	5%	1/10W
R416	1-216-033-00	METAL CHIP	220	5%	1/10W
R451	1-216-049-00	METAL CHIP	1K	5%	1/10W
R452	1-216-049-00	METAL CHIP	1K	5%	1/10W
R453	1-216-049-00	METAL CHIP	1K	5%	1/10W
R454	1-216-073-00	METAL CHIP	10K	5%	1/10W
R455	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R456	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R501	1-216-097-00	METAL CHIP	100K	5%	1/10W
R502	1-216-049-00	METAL CHIP	1K	5%	1/10W
R503	1-216-097-00	METAL CHIP	100K	5%	1/10W
R504	1-216-097-00	METAL CHIP	100K	5%	1/10W
R505	1-216-105-00	METAL CHIP	220K	5%	1/10W
R506	1-216-097-00	METAL CHIP	100K	5%	1/10W (German)
R508	1-216-097-00	METAL CHIP	100K	5%	1/10W
R509	1-216-097-00	METAL CHIP	100K	5%	1/10W
R510	1-216-097-00	METAL CHIP	100K	5%	1/10W
R511	1-216-097-00	METAL CHIP	100K	5%	1/10W
R512	1-216-097-00	METAL CHIP	100K	5%	1/10W
R513	1-216-097-00	METAL CHIP	100K	5%	1/10W
R514	1-216-097-00	METAL CHIP	100K	5%	1/10W
R515	1-216-097-00	METAL CHIP	100K	5%	1/10W
R516	1-216-097-00	METAL CHIP	100K	5%	1/10W
R591	1-216-097-00	METAL CHIP	100K	5%	1/10W (AEP)
R592	1-216-097-00	METAL CHIP	100K	5%	1/10W
R601	1-216-077-00	METAL CHIP	15K	5%	1/10W
R602	1-216-073-00	METAL CHIP	10K	5%	1/10W
R603	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R604	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R605	1-216-049-00	METAL CHIP	1K	5%	1/10W
R606	1-216-049-00	METAL CHIP	1K	5%	1/10W
R607	1-216-033-00	METAL CHIP	220	5%	1/10W
R611	1-216-073-00	METAL CHIP	10K	5%	1/10W

MAIN **MOTOR** **SENSOR**

Ref. No.	Part No.	Description			Remark
R612	1-216-295-00	METAL CHIP	0	5%	1/10W
R671	1-216-097-00	METAL CHIP	100K	5%	1/10W
R673	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R674	1-216-073-00	METAL CHIP	10K	5%	1/10W
R675	1-216-049-00	METAL CHIP	1K	5%	1/10W
R676	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R677	1-216-105-00	METAL CHIP	220K	5%	1/10W
R678	1-216-073-00	METAL CHIP	10K	5%	1/10W
R679	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R701	1-216-049-00	METAL CHIP	1K	5%	1/10W
R702	1-216-049-00	METAL CHIP	1K	5%	1/10W
R703	1-216-049-00	METAL CHIP	1K	5%	1/10W
R704	1-216-081-00	METAL CHIP	22K	5%	1/10W
R707	1-216-105-00	METAL CHIP	220K	5%	1/10W
R708	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R709	1-216-097-00	METAL CHIP	100K	5%	1/10W
R710	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R711	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R712	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R713	1-216-097-00	METAL CHIP	100K	5%	1/10W
R714	1-216-097-00	METAL CHIP	100K	5%	1/10W
R715	1-216-101-00	METAL CHIP	150K	5%	1/10W
R716	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R717	1-216-073-00	METAL CHIP	10K	5%	1/10W
R718	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R719	1-216-097-00	METAL CHIP	100K	5%	1/10W
R720	1-216-097-00	METAL CHIP	100K	5%	1/10W
R721	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R722	1-216-089-00	METAL GLAZE	47K	5%	1/10W
R723	1-216-105-00	METAL CHIP	220K	5%	1/10W
R724	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R725	1-216-675-11	METAL CHIP	10K	0.5%	1/10W
R726	1-216-025-00	METAL CHIP	100	5%	1/10W
R727	1-216-025-00	METAL CHIP	100	5%	1/10W
R728	1-216-049-00	METAL CHIP	1K	5%	1/10W
R729	1-216-049-00	METAL CHIP	1K	5%	1/10W
R730	1-216-049-00	METAL CHIP	1K	5%	1/10W
R731	1-216-049-00	METAL CHIP	1K	5%	1/10W
R732	1-216-049-00	METAL CHIP	1K	5%	1/10W
R733	1-216-049-00	METAL CHIP	1K	5%	1/10W
R735	1-216-025-00	METAL CHIP	100	5%	1/10W
R736	1-216-049-00	METAL CHIP	1K	5%	1/10W
R738	1-216-057-00	METAL CHIP	2.2K	5%	1/10W
R739	1-216-053-00	METAL CHIP	1.5K	5%	1/10W
R740	1-216-085-00	METAL CHIP	33K	5%	1/10W
R741	1-216-065-00	METAL CHIP	4.7K	5%	1/10W
R743	1-216-085-00	METAL CHIP	33K	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV31	1-238-603-11	RES, ADJ, CARBON 100K	
		< SWITCH >	
S701	1-571-478-11	SWITCH, SLIDE (POWER SELECT)	
S703	1-571-532-21	SWITCH, TACTIL (RESET)	
		< THERMISTOR >	
TH701	1-806-715-11	THERMISTOR	
TH702	1-806-715-11	THERMISTOR	
		< TUNER >	
TU1	A-3282-003-A	TUNER UNIT (FM/AM)	
		< VIBRATOR >	
X31	1-577-126-51	VIBRATOR, CRYSTAL (7.2MHz)	
X71	1-579-900-21	VIBRATOR, CRYSTAL (4.3MHz)	
X401	1-579-280-31	VIBRATOR, CRYSTAL (15MHz)	
X501	1-579-952-21	VIBRATOR, CERAMIC (8MHz)	
X701	1-760-096-31	VIBRATOR, CRYSTAL (4.19MHz)	
**********			
*	1-650-144-11	MOTOR BOARD	
		< CONNECTOR >	
* CNJ303	1-750-160-21	CONNECTOR, FPC 7P	
		< SWITCH >	
S301	1-572-467-21	SWITCH, PUSH (1 KEY) (LIMIT)	
**********			
*	A-3222-525-A	SENSOR BOARD, COMPLETE	
		**********	
		(Include SENSOR FLEXIBLE BOARD)	
		< DIODE >	
D801	8-719-045-75	DIODE CL-200IR-X-TU	
D802	8-719-045-75	DIODE CL-200IR-X-TU	
		< RESISTOR >	
R801	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
R802	1-216-053-00	METAL CHIP 1.5K 5%	1/10W
**********			

Ref. No.	Part No.	Description			Remark
*	1-650-223-11	SENSOR FLEXIBLE BOARD			
		**********			
		< SWITCH >			
S901	1-692-441-11	SWITCH, MICROPHONE (DISC DET)			
**********					
*	A-3295-950-A	SERVO BOARD, COMPLETE			
		**********			
		< CAPACITOR >			
C1	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C2	1-163-235-11	CERAMIC CHIP	22PF	5%	50V
C3	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C4	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C5	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C7	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C8	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C9	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C10	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C11	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C12	1-164-161-11	CERAMIC CHIP	0.0022uF	10%	100V
C13	1-163-011-11	CERAMIC CHIP	0.0015uF	10%	50V
C14	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C15	1-126-191-11	ELECT	0.47uF	20%	50V
C16	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C17	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C18	1-126-206-11	ELECT CHIP	100uF	20%	6.3V
C20	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C21	1-164-346-11	CERAMIC CHIP	1uF		16V
C22	1-164-004-11	CERAMIC CHIP	0.1uF	10%	25V
C23	1-164-346-11	CERAMIC CHIP	1uF		16V
C24	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C25	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C26	1-164-232-11	CERAMIC CHIP	0.01uF		50V
C27	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
C28	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C30	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C31	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C32	1-164-492-11	CERAMIC CHIP	0.15uF	10%	16V
C34	1-163-809-11	CERAMIC CHIP	0.047uF	10%	25V
C35	1-135-166-21	TANTALUM CHIP	47uF	10%	10V
		< CONNECTOR >			
CNJ1	1-565-728-11	CONNECTOR, FPC 17P			
* CNJ2	1-750-159-21	CONNECTOR, FPC 5P			
* CNJ3	1-750-160-21	CONNECTOR, FPC 7P			
CNJ4	1-764-616-11	HOUSING, CONNECTOR (PC BOARD) 30P			
* CNP1	1-580-055-21	PIN, CONNECTOR 2P			

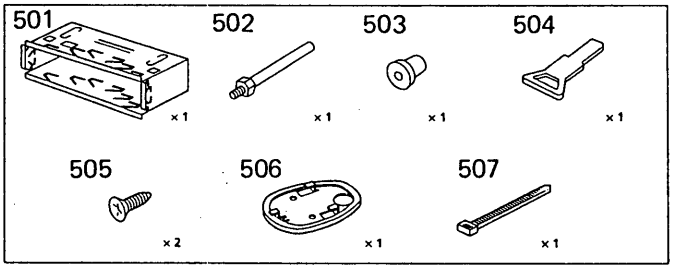
Ref. No.	Part No.	Description			Remark
		< IC >			
IC1	8-752-059-30	IC CXA1610M			
IC2	8-752-367-16	IC CXD2515Q			
IC3	8-759-823-87	IC LB1638M			
IC4	8-759-925-72	IC SN74HC02ANS			
IC5	8-759-087-55	IC MPC1732MR2			
IC6	8-759-087-53	IC MPC1730MR2			
		< COIL >			
L1	1-412-058-11	INDUCTOR CHIP	10uH		
L3	1-412-058-11	INDUCTOR CHIP	10uH		
L4	1-412-058-11	INDUCTOR CHIP	10uH		
		< TRANSISTOR >			
Q1	8-729-024-26	PHOTO TRANSISTOR CPT-181S-C-TU			
Q2	8-729-024-26	PHOTO TRANSISTOR CPT-181S-C-TU			
Q5	8-729-141-48	TRANSISTOR 2SB624-BV345			
		< RESISTOR >			
R1	1-216-024-00	METAL GLAZE	91	5%	1/10W
R2	1-216-001-00	METAL CHIP	10	5%	1/10W
R4	1-216-077-00	METAL CHIP	15K	5%	1/10W
R5	1-216-073-00	METAL CHIP	10K	5%	1/10W
R6	1-216-073-00	METAL CHIP	10K	5%	1/10W
R7	1-216-099-00	METAL CHIP	120K	5%	1/10W
R8	1-216-081-00	METAL CHIP	22K	5%	1/10W
R9	1-216-075-00	METAL CHIP	12K	5%	1/10W
R10	1-216-075-00	METAL CHIP	12K	5%	1/10W
R11	1-216-083-00	METAL CHIP	27K	5%	1/10W
R12	1-216-077-00	METAL CHIP	15K	5%	1/10W
R13	1-216-077-00	METAL CHIP	15K	5%	1/10W
R14	1-216-097-00	METAL CHIP	100K	5%	1/10W
R15	1-216-085-00	METAL CHIP	33K	5%	1/10W
R16	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R17	1-216-061-00	METAL CHIP	3.3K	5%	1/10W
R18	1-216-073-00	METAL CHIP	10K	5%	1/10W
R19	1-216-121-00	METAL CHIP	1M	5%	1/10W
R20	1-216-097-00	METAL CHIP	100K	5%	1/10W
R21	1-216-073-00	METAL CHIP	10K	5%	1/10W
R22	1-216-033-00	METAL CHIP	220	5%	1/10W
R23	1-216-033-00	METAL CHIP	220	5%	1/10W
R24	1-216-033-00	METAL CHIP	220	5%	1/10W
R25	1-216-073-00	METAL CHIP	10K	5%	1/10W
R27	1-216-295-00	METAL CHIP	0	5%	1/10W
R32	1-216-073-00	METAL CHIP	10K	5%	1/10W

Ref. No.	Part No.	Description	Remark
		< VARIABLE RESISTOR >	
RV1	1-238-091-11	RES, ADJ, CERMET 22K	
RV2	1-238-091-11	RES, ADJ, CERMET 22K	
		< SWITCH >	
SW1	1-571-754-31	SWITCH, PUSH (1 KEY) (DISC SET)	
		MISCELLANEOUS	
10	1-765-081-11	CORD (WITH CONNECTOR)	
⚠152	8-848-283-11	DEVICE, OPTICAL KSS-313A	
156	1-646-402-11	MOTOR FLEXIBLE BOARD	
F1	1-533-326-11	FUSE (BLADE TYPE) (3A)	
F2	1-533-331-11	FUSE (BLADE TYPE) (15A)	
M901	X-3367-484-1	MOTOR (SPINDLE) ASSY	
M902	A-3252-585-A	MOTOR (SL) ASSY (SLED)	
M903	A-3252-580-A	MOTOR (L) ASSY (LOADING)	
S901	1-692-441-11	SWITCH, MICRO (DISK DET)	

HARDWARE LIST

#1	7-621-255-25	SCREW +P 2X4	
#2	7-621-770-67	SCREW +B 2.6X6	
#3	7-621-770-XX	SCREW +PTT 2.6X8 (S)	
#4	7-621-771-06	SCREW +B 2X5	
#5	7-621-772-08	SCREW +B 2X3	
#6	7-621-772-10	SCREW +B 2X4	
#7	7-621-772-60	SCREW +B 2X12	
#8	7-621-773-95	SCREW +PTT 2.6X6 (S)	
#9	7-627-552-07	SCREW, PRECISION +P 1.7X2.5	
#10	7-627-552-47	SCREW, PRECISION +P 1.7X4	
#11	7-627-553-18	SCREW, PRECISION +P 2X2	
#12	7-627-553-27	SCREW, PRECISION +P 2X2.5	
#13	7-627-553-37	SCREW, PRECISION +P 2X3	
#14	7-627-553-67	SCREW, PRECISION +P 2X5	
#15	7-624-101-01	STOP RING 1.2 (E TYPE)	
#16	7-685-106-19	SCREW +P 2X10 TYPE2 NON-SLIT	
#17	7-621-775-50	SCREW +PTT 2.6X10 (S)	
#18	7-682-547-04	SCREW +PTT 3X6 (S)	

Ref. No.	Part No.	Description	Remark
		ACCESSORIES & PACKING MATERIALS	
	1-467-623-11	REMOTE COMMANDER (RM-X1S)	
	1-765-082-11	CORD (WITH CONNECTOR) 13P	
	3-758-331-11	MANUAL, INSTRUCTION (ENGLISH, FRENCH, GERMAN, ITALIAN)	
	3-758-331-41	MANUAL, INSTRUCTION (SPANISH, DUTCH, SWEDISH, PORTUGUESE) (AEP)	
	3-758-532-11	MANUAL, INSTRUCTION, INSTALL (COMMANDER) (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, DUTCH, SWEDISH, PORTUGESE)	
	3-758-795-11	MANUAL, INSTRUCTION, FITTING (ENGLISH, FRENCH, GERMAN, ITALIAN, SPANISH, DUTCH, SWEDISH, PORTUGESE)	
*	3-911-561-11	CUSHION (UPPER)	
*	3-911-562-11	CUSHION (LOWER)	
*	3-911-563-01	INDIVIDUAL CARTON (AEP)	
*	3-911-565-01	INDIVIDUAL CARTON (German)	
	X-3367-795-1	CASE (FRONT PANEL)	
		MOUNTING HARDWARE	
501	X-3366-235-1	FRAME ASSY, FITTING	
502	3-386-828-01	SCREW, FITTING	
* 503	3-358-697-01	BUSHING	
504	3-909-731-01	KEY	
505	7-621-853-30	SCREW +KTP 3X12 TYPE4	
506	X-3368-170-1	BRACKET ASSY	
507	3-655-653-21	BAND (TAITON), BINDING	



The components identified by mark ⚠ or dotted line with mark. ⚠ are critical for safety. Replace only with part number specified.

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Sony Corporation
Mobile Electronics Group

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CDX-5470RDS

SONY®
SERVICE MANUAL

AEP Model

SUPPLEMENT-1

File this supplement with the service manual.

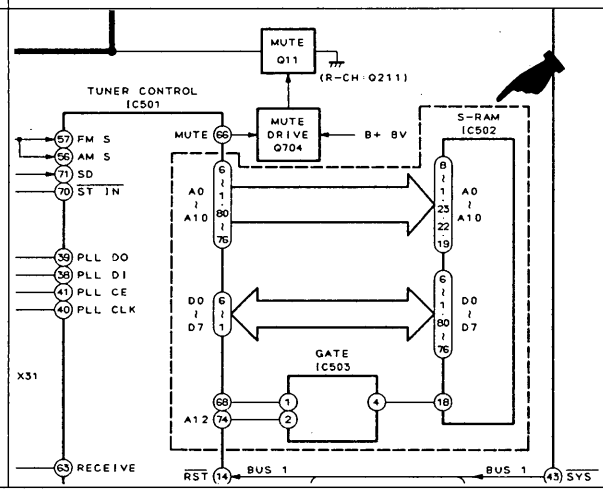
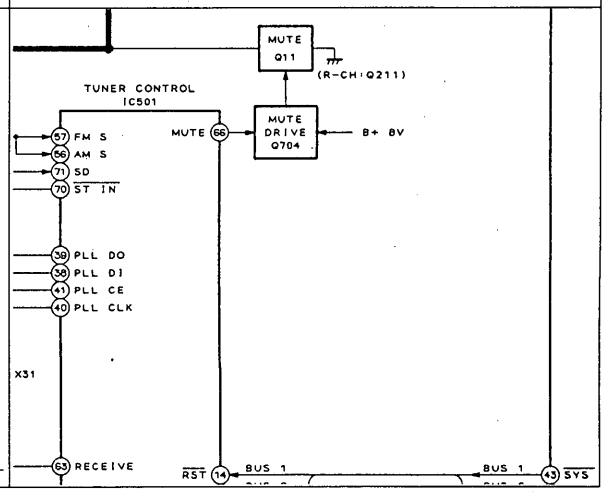
Subject: Change of IC501 on Main Board

(SPM-96036)

IC501 has been changed from MN1882417SNU2 to MN1883220SZF.
Because of this change, peripheral circuit has been changed.

BLOCK DIAGRAM

: Changed portion

Page	FORMER TYPE	NEW TYPE
20		

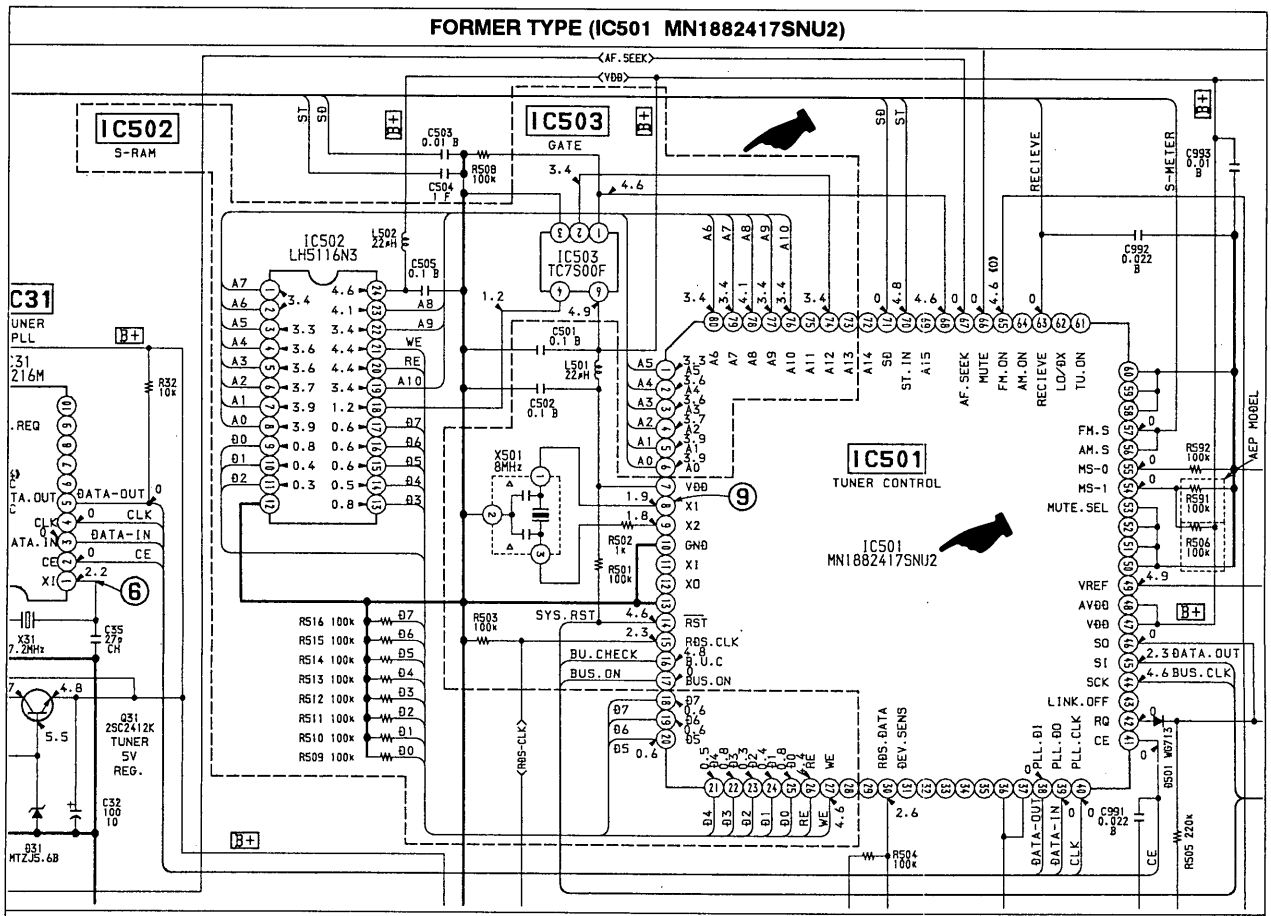
SCHEMATIC DIAGRAM
[MAIN BOARD]

: Changed portion

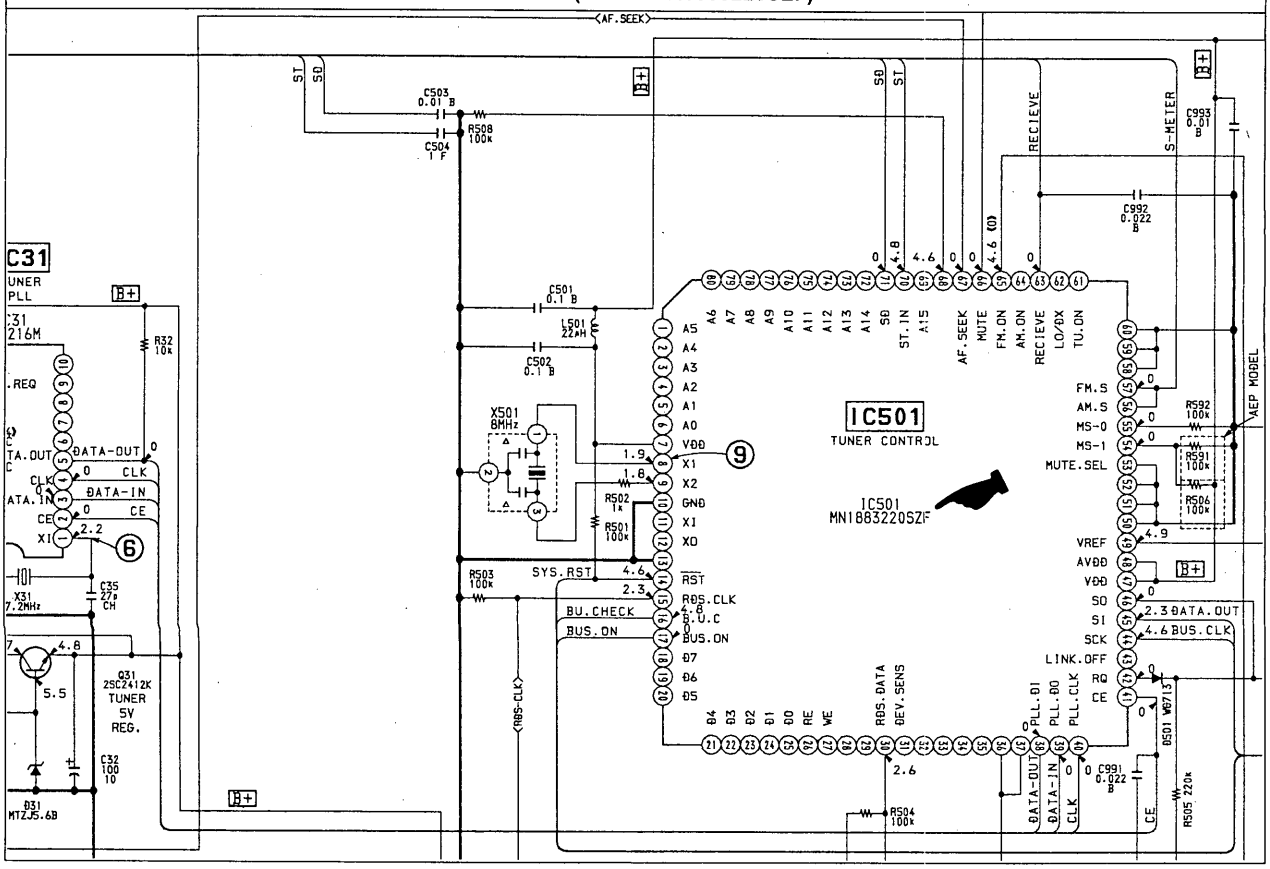
Page 31, 32

Location: I-M, 8-14

FORMER TYPE (IC501 MN1882417SNU2)

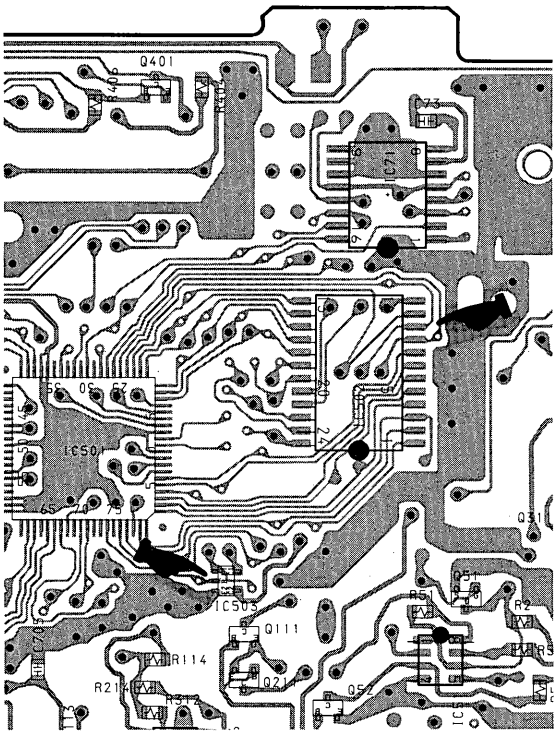
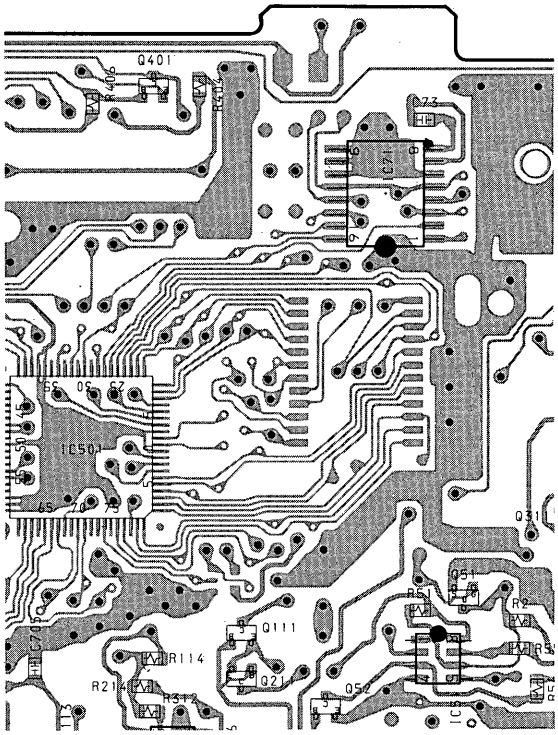
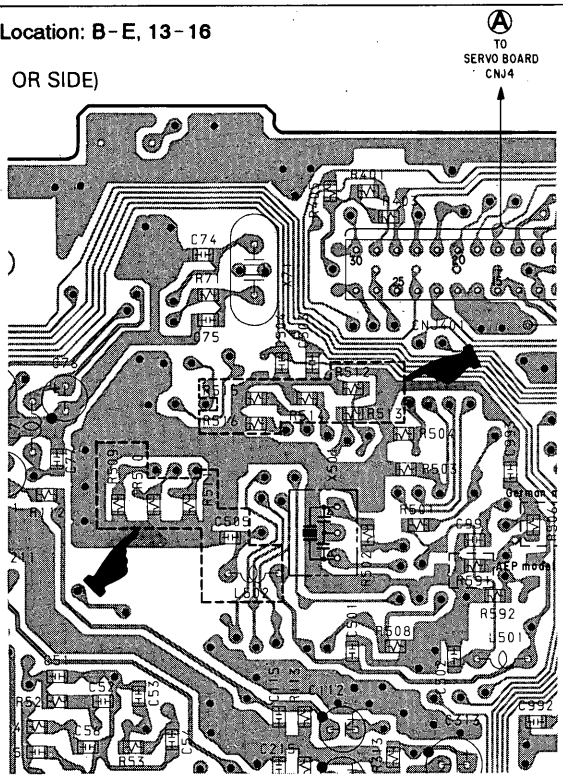
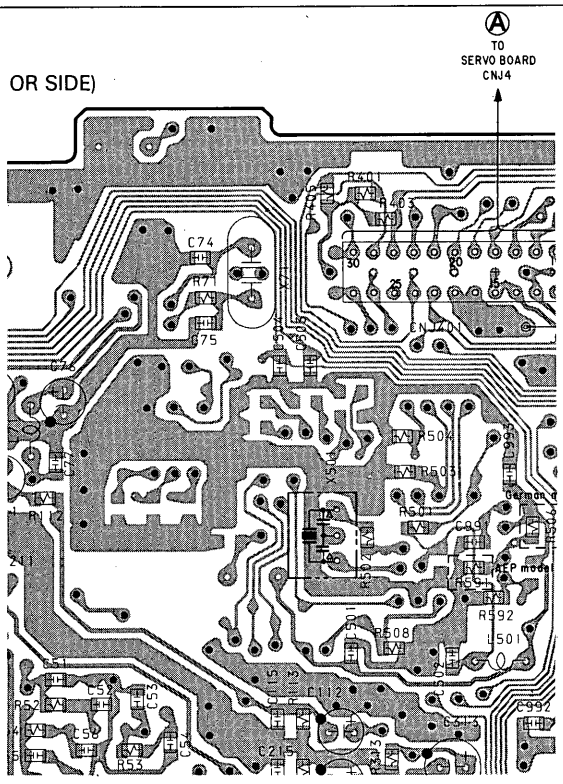


NEW TYPE (IC501 MN1883220SZF)



PRINTED WIRING BOARD
[MAIN BOARD]

: Changed portion

Page	FORMER TYPE	NEW TYPE
36	Location: B-E, 6-9 	
37	Location: B-E, 13-16 OR SIDE) 	OR SIDE) 

ELECTRICAL PARTS LIST

Page	Ref. No.	FORMER TYPE	NEW TYPE	Remark
		Part No. Description	Part No. Description	
50	C505	1-164-004-11 CERAMIC CHIP 0.1uF 10% 25V	————————	Delete
51	IC501	8-759-259-09 IC MN1882417SNU2	8-759-330-63 IC MN1883220SZF	Change
	IC502	8-759-168-53 IC LH5116N3	————————	Delete
	IC503	8-759-038-46 IC SC7S00F	————————	Delete
52	L502	1-410-513-11 INDUCTOR 22uH	————————	Delete
53	R509	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R510	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R511	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R512	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R513	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R514	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R515	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete
	R516	1-216-097-00 METAL CHIP 100K 5% 1/10W	————————	Delete

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